Appendix A

State and County Codes
All States

STATE AND COUNTY FIPS CODES

Code State

1 Alabama

1 Autauga
3 Baldwin
5 Barbour
7 Bibb
9 Blount
11 Bullock
13 Butler
15 Calhoun
17 Chambers
19 Cherokee
21 Chilton
23 Choctaw
25 Clarke
27 Clay
29 Cleburne
31 Coffee
33 Colbert
35 Conecuh
37 Coosa
39 Covington
41 Crenshaw
43 Cullman
45 Dale
47 Dallas
49 De Kalb
51 Elmore
53 Escambia
55 Etowah
57 Fayette
59 Franklin
61 Geneva
63 Greene
65 Hale
67 Henry
69 Houston
71 Jackson
73 Jefferson
75 Lamar
77 Lauderdale
79 Lawrence
81 Lee
83 Limestone
85 Lowndes
87 Macon
89 Madison
91 Marengo
93 Marion
95 Marshall
97 Mobile
99 Monroe
101 Montgomery
103 Morgan
105 Perry
107 Pickens
109 Pike
111 Randolph
113 Russell
115 St. Clair
117 Shelby
119 Sumter
121 Talladega
123 Tallapoosa
125 Tuscaloosa
127 Walker
129 Washington
131 Wilcox
133 Winston

2 Alaska

10 Aleutian Islands
20 Anchorage
30 Angoon
40 Barrow
50 Bethel
60 Bristol Bay Borough
70 Bristol Bay Division
80 Cordova-Mc Carthy
90 Fairbanks
100 Haines
110 Juneau
120 Kenai-Cook Inlet
130 Ketchikan
140 Kobuk
150 Kodiak
160 Kuskokwim
170 Matanuska-Susitna
180 Nome
190 Outer Ketchikan
200 Prince of Wales
210 Seward
220 Sitka
230 Skagway-Yakutat
240 Southeast Fairbanks
250 Upper Yukon
260 Valdez-Chitina-Whittier
270 Wade Hampton
280 Wrangell-Petersburg
290 Yukon-Koyukuk

4 Arizona

1 Apache
3 Cochise
5 Coconino
7 Gila
9 Graham
11 Greenlee
12 La Paz
13 Maricopa
15 Mohave
17 Navajo
19 Pima
21 Pinal
23 Santa Cruz
25 Yavapai
27 Yuma

5 Arkansas

1 Arkansas
3 Ashley
5 Baxter
7 Benton
9 Boone
11 Bradley
13 Calhoun
15 Carroll
17 Chicot
19 Clark
21 Clay
23 Cleburne
25 Cleveland
27 Columbia
29 Conway
31 Craighead
33 Crawford
35 Crittenden
37 Cross
39 Dallas
41 Desha
43 Drew
45 Faulkner
47 Franklin
49 Fulton
51 Garland
53 Grant
55 Greene
57 Hempstead
59 Hot Spring

5 Arkansas (Cont.)

61 Howard
63 Independence
65 Izard
67 Jackson
69 Jefferson
71 Johnson
73 Lafayette
75 Lawrence
77 Lee
79 Lincoln
81 Little River
83 Logan
85 Lonoke
87 Madison
89 Marion
91 Miller
93 Mississippi
95 Monroe
97 Montgomery
99 Nevada
101 Newton
103 Ouachita
105 Perry
107 Phillips
109 Pike
111 Poinsett
113 Polk
115 Pope
117 Prairie
119 Pulaski
121 Randolph
123 St. Francis
125 Saline
127 Scott
129 Searcy
131 Sebastian
133 Sevier
135 Sharp
137 Stone
139 Union
141 Van Buren
143 Washington
145 White
147 Woodruff
149 Yell

6 California

1 Alameda
3 Alpine
5 Amador
7 Butte
9 Calaveras
11 Colusa
13 Contra Costa
15 Del Norte
17 El Dorado
19 Fresno
21 Glenn
23 Humboldt
25 Imperial
27 Inyo
29 Kern
31 Kings
33 Lake
35 Lassen
37 Los Angeles
39 Madera
41 Marin
43 Mariposa
45 Mendocino
47 Merced
49 Modoc
51 Mono
53 Monterey
55 Napa
57 Nevada
59 Orange
61 Placer
63 Plumas
65 Riverside
67 Sacramento
69 San Benito
71 San Bernardino
73 San Diego
75 San Francisco
77 San Joaquin
79 San Luis Obispo
81 San Mateo
83 Santa Barbara
85 Santa Clara
87 Santa Cruz
89 Shasta
91 Sierra
93 Siskiyou
95 Solano
97 Sonoma
99 Stanislaus
101 Sutter
103 Tehama
105 Trinity
107 Tulare
109 Tuolumne
111 Ventura
113 Yolo
115 Yuba

8 Colorado

1 Adams
3 Alamosa
5 Arapahoe
7 Archuleta
9 Baca
11 Bent
13 Boulder
15 Chaffee
17 Cheyenne
19 Clear Creek
21 Conejos
23 Costilla
25 Crowley
27 Custer
29 Delta
31 Denver
33 Dolores
35 Douglas
37 Eagle
39 Elbert
41 El Paso
43 Fremont
45 Garfield
47 Gilpin
49 Grand
51 Gunnison
53 Hinsdale
55 Huerfano
57 Jackson
59 Jefferson
61 Kiowa
63 Kit Carson
65 Lake
67 La Plata
69 Larimer
71 Las Animas
73 Lincoln
75 Logan
77 Mesa
79 Mineral
81 Moffat
83 Montezuma
85 Montrose
87 Morgan
89 Otero
91 Ouray
93 Park
95 Phillips
97 Pitkin
99 Prowers
101 Pueblo
103 Rio Blanco

8 Colorado (Cont.)

105 Rio Grande
107 Routt
109 Saguache
111 San Juan
113 San Miguel
115 Sedgwick
117 Summit
119 Teller
121 Washington
123 Weld
125 Yuma

9 Connecticut

1 Fairfield
3 Hartford
5 Litchfield
7 Middlesex
9 New Haven
11 New London
13 Tolland
15 Windham

10 Delaware

1 Kent
3 New Castle
5 Sussex

11 District of Columbia

1 District of Columbia

12 Florida

1 Alachua
3 Baker
5 Bay
7 Bradford
9 Brevard
11 Broward
13 Calhoun
15 Charlotte
17 Citrus
19 Clay
21 Collier
23 Columbia
25 Dade
27 De Soto
29 Dixie
31 Duval
33 Escambia
35 Flagler
37 Franklin
39 Gadsden
41 Gilchrist
43 Glades
45 Gulf
47 Hamilton
49 Hardee
51 Hendry
53 Hernando
55 Highlands
57 Hillsborough
59 Holmes
61 Indian River
63 Jackson
65 Jefferson
67 Lafayette
69 Lake
71 Lee
73 Leon
75 Levy
77 Liberty
79 Madison
81 Manatee
83 Marion
85 Martin
87 Monroe
89 Nassau
91 Okaloosa
93 Okeechobee
95 Orange
97 Osceola
99 Palm Beach
101 Pasco
103 Pinellas
105 Polk
107 Putnam
109 St. Johns
111 St. Lucie
113 Santa Rosa
115 Sarasota
117 Seminole
119 Sumter
121 Suwannee
123 Taylor
125 Union
127 Volusia
129 Wakulla
131 Walton
133 Washington

13 Georgia

1 Appling
3 Atkinson
5 Bacon
7 Baker
9 Baldwin
11 Banks
13 Barrow
15 Bartow
17 Ben Hill
19 Berrien
21 Bibb
23 Bleckley
25 Brantley
27 Brooks
29 Bryan
31 Bulloch
33 Burke
35 Butts
37 Calhoun
39 Camden
43 Candler
45 Carroll
47 Catoosa
49 Charlton
51 Chatham
53 Chattahoochee
55 Chattooga
57 Cherokee
59 Clarke
61 Clay
63 Clayton
65 Clinch
67 Cobb
69 Coffee
71 Colquitt
73 Columbia
75 Cook
77 Coweta
79 Crawford
81 Crisp
83 Dade
85 Dawson
87 Decatur
89 De Kalb
91 Dodge
93 Dooly
95 Dougherty
97 Douglas
99 Early
101 Echols
103 Effingham
105 Elbert

13 Georgia (Cont.)

107 Emanuel
109 Evans
111 Fannin
113 Fayette
115 Floyd
117 Forsyth
119 Franklin
121 Fulton
123 Gilmer
125 Glascock
127 Glynn
129 Gordon
131 Grady
133 Greene
135 Gwinnett
137 Habersham
139 Hall
141 Hancock
143 Haralson
145 Harris
147 Hart
149 Heard
151 Henry
153 Houston
155 Irwin
157 Jackson
159 Jasper
161 Jeff Davis
163 Jefferson
165 Jenkins
167 Johnson
169 Jones
171 Lamar
173 Lanier
175 Laurens
177 Lee
179 Liberty
181 Lincoln
183 Long
185 Lowndes
187 Lumpkin
189 Mc Duffie
191 Mc Intosh
193 Macon
195 Madison
197 Marion
199 Meriwether
201 Miller
205 Mitchell
207 Monroe
209 Montgomery
211 Morgan
213 Murray
215 Muscogee
217 Newton
219 Oconee
221 Oglethorpe
223 Paulding
225 Peach
227 Pickens
229 Pierce
231 Pike
233 Polk
235 Pulaski
237 Putnam
239 Quitman
241 Rabun
243 Randolph
245 Richmond
247 Rockdale
249 Schley
251 Screven
253 Seminole
255 Spalding
257 Stephens
259 Stewart
261 Sumter
263 Talbot
265 Taliaferro
267 Tattnall
269 Taylor
271 Telfair
273 Terrell
275 Thomas
277 Tift
279 Toombs
281 Towns
283 Treutlen
285 Troup
287 Turner
289 Twiggs
291 Union
293 Upson
295 Walker
297 Walton
299 Ware
301 Warren
303 Washington
305 Wayne
307 Webster
309 Wheeler
311 White
313 Whitfield
315 Wilcox
317 Wilkes
319 Wilkinson
321 Worth

15 Hawaii

1 Hawaii
3 Honolulu/Oahu
5 Kalawao
7 Kauai
9 Maui
11 Molokai
13 Lanai

16 Idaho

1 Ada
3 Adams
5 Bannock
7 Bear Lake
9 Benewah
11 Bingham
13 Blaine
15 Boise
17 Bonner
19 Bonneville
21 Boundary
23 Butte
25 Camas
27 Canyon
29 Caribou
31 Cassia
33 Clark
35 Clearwater
37 Custer
39 Elmore
41 Franklin
43 Fremont
45 Gem
47 Gooding
49 Idaho
51 Jefferson
53 Jerome
55 Kootenai
57 Latah
59 Lemhi
61 Lewis
63 Lincoln
65 Madison
67 Minidoka
69 Nez Perce

71 Oneida
73 Owyhee
75 Payette
77 Power
79 Shoshone
81 Teton
83 Twin Falls
85 Valley
87 Washington

17 Illinois

1 Adams
3 Alexander
5 Bond
7 Boone
9 Brown
11 Bureau
13 Calhoun
15 Carroll
17 Cass
19 Champaign
21 Christian
23 Clark
25 Clay
27 Clinton
29 Coles
31 Cook
33 Crawford
35 Cumberland
37 De Kalb
39 De Witt
41 Douglas
43 Du Page
45 Edgar
47 Edwards
49 Effingham
51 Fayette
53 Ford
55 Franklin
57 Fulton
59 Gallatin
61 Greene
63 Grundy
65 Hamilton
67 Hancock
69 Hardin
71 Henderson
73 Henry
75 Iroquois
77 Jackson
79 Jasper
81 Jefferson
83 Jersey
85 Jo Daviess
87 Johnson
89 Kane
91 Kankakee
93 Kendall
95 Knox
97 Lake
99 La Salle
101 Lawrence
103 Lee
105 Livingston
107 Logan
109 Mc Donough
111 Mc Henry
113 Mc Lean
115 Macon
117 Macoupin
119 Madison
121 Marion
123 Marshall
125 Mason
127 Massac
129 Menard
131 Mercer
133 Monroe
135 Montgomery
137 Morgan
139 Moultrie
141 Ogle
143 Peoria
145 Perry
147 Piatt
149 Pike
151 Pope
153 Pulaski
155 Putnam
157 Randolph
159 Richland
161 Rock Island
163 St. Clair
165 Saline
167 Sangamon
169 Schuyler
171 Scott
173 Shelby
175 Stark
177 Stephenson
179 Tazewell
181 Union
183 Vermilion
185 Wabash
187 Warren
189 Washington
191 Wayne
193 White
195 Whiteside
197 Will
199 Williamson
201 Winnebago
203 Woodford

18 Indiana

1 Adams
3 Allen
5 Bartholomew
7 Benton
9 Blackford
11 Boone
13 Brown
15 Carroll
17 Cass
19 Clark
21 Clay
23 Clinton
25 Crawford
27 Daviess
29 Dearborn
31 Decatur
33 De Kalb
35 Delaware
37 Dubois
39 Elkhart
41 Fayette
43 Floyd
45 Fountain
47 Franklin
49 Fulton
51 Gibson
53 Grant
55 Greene
57 Hamilton
59 Hancock
61 Harrison
63 Hendricks
65 Henry
67 Howard
69 Huntington
71 Jackson
73 Jasper
75 Jay
77 Jefferson
79 Jennings
81 Johnson
83 Knox

85 Kosciusko
87 Lagrange
89 Lake
91 La Porte
93 Lawrence
95 Madison
97 Marion
99 Marshall
101 Martin
103 Miami
105 Monroe
107 Montgomery
109 Morgan
111 Newton
113 Noble
115 Ohio
117 Orange
119 Owen
121 Parke

18 Indiana (Cont.)

123 Perry
125 Pike
127 Porter
129 Posey
131 Pulaski
133 Putnam
135 Randolph
137 Ripley
139 Rush
141 St. Joseph
143 Scott
145 Shelby
147 Spencer
149 Starke
151 Steuben
153 Sullivan
155 Switzerland
157 Tippecanoe
159 Tipton
161 Union
163 Vanderburgh
165 Vermillion
167 Vigo
169 Wabash
171 Warren
173 Warrick
175 Washington
177 Wayne
179 Wells
181 White
183 Whitley

19 Iowa

1 Adair
3 Adams
5 Allamakee
7 Appanoose
9 Audubon
11 Benton
13 Black Hawk
15 Boone
17 Bremer
19 Buchanan
21 Buena Vista
23 Butler
25 Calhoun
27 Carroll
29 Cass
31 Cedar
33 Cerro Gordo
35 Cherokee
37 Chickasaw
39 Clarke
41 Clay
43 Clayton
45 Clinton
47 Crawford
49 Dallas
51 Davis
53 Decatur
55 Delaware
57 Des Moines
59 Dickinson
61 Dubuque
63 Emmet
65 Fayette
67 Floyd
69 Franklin
71 Fremont
73 Greene
75 Grundy
77 Guthrie
79 Hamilton
81 Hancock
83 Hardin
85 Harrison
87 Henry
89 Howard
91 Humboldt
93 Ida
95 Iowa
97 Jackson
99 Jasper
101 Jefferson
103 Johnson
105 Jones
107 Keokuk
109 Kossuth
111 Lee
113 Linn
115 Louisa
117 Lucas
119 Lyon
121 Madison
123 Mahaska
125 Marion
127 Marshall
129 Mills
131 Mitchell
133 Monona
135 Monroe
137 Montgomery
139 Muscatine
141 Obrien
143 Osceola
145 Page
147 Palo Alto
149 Plymouth
151 Pocahontas
153 Polk
155 Pottawattamie
157 Poweshiek
159 Ringgold
161 Sac
163 Scott
165 Shelby
167 Sioux
169 Story
171 Tama
173 Taylor
175 Union
177 Van Buren
179 Wapello
181 Warren
183 Washington
185 Wayne
187 Webster
189 Winnebago
191 Winneshiek
193 Woodbury
195 Worth
197 Wright

20 Kansas

1 Allen
3 Anderson

5 Atchison
7 Barber
9 Barton
11 Bourbon
13 Brown
15 Butler
17 Chase
19 Chautauqua
21 Cherokee
23 Cheyenne
25 Clark
27 Clay
29 Cloud
31 Coffey
33 Comanche
35 Cowley
37 Crawford
39 Decatur
41 Dickinson
43 Doniphan
45 Douglas
47 Edwards
49 Elk
51 Ellis
53 Ellsworth
55 Finney
57 Ford
59 Franklin

20 Kansas (Cont.)

61 Geary
63 Gove
65 Graham
67 Grant
69 Gray
71 Greeley
73 Greenwood
75 Hamilton
77 Harper
79 Harvey
81 Haskell
83 Hodgeman
85 Jackson
87 Jefferson
89 Jewell
91 Johnson
93 Kearny
95 Kingman
97 Kiowa
99 Labette
101 Lane
103 Leavenworth
105 Lincoln
107 Linn
109 Logan
111 Lyon
113 Mc Pherson
115 Marion
117 Marshall
119 Meade
121 Miami
123 Mitchell
125 Montgomery
127 Morris
129 Morton
131 Nemaha
133 Neosho
135 Ness
137 Norton
139 Osage
141 Osborne
143 Ottawa
145 Pawnee
147 Phillips
149 Pottawatomie
151 Pratt
153 Rawlins
155 Reno
157 Republic
159 Rice
161 Riley
163 Rooks
165 Rush
167 Russell
169 Saline
171 Scott
173 Sedgwick
175 Seward
177 Shawnee
179 Sheridan
181 Sherman
183 Smith
185 Stafford
187 Stanton
189 Stevens
191 Sumner
193 Thomas
195 Trego
197 Wabaunsee
199 Wallace
201 Washington
203 Wichita
205 Wilson
207 Woodson
209 Wyandotte

21 Kentucky

1 Adair
3 Allen
5 Anderson
7 Ballard
9 Barren
11 Bath
13 Bell
15 Boone
17 Bourbon
19 Boyd
21 Boyle
23 Bracken
25 Breathitt
27 Breckinridge
29 Bullitt
31 Butler
33 Caldwell
35 Calloway
37 Campbell
39 Carlisle
41 Carroll
43 Carter
45 Casey
47 Christian
49 Clark
51 Clay
53 Clinton
55 Crittenden
57 Cumberland
59 Daviess
61 Edmonson
63 Elliott
65 Estill
67 Fayette
69 Fleming
71 Floyd
73 Franklin
75 Fulton
77 Gallatin
79 Garrard
81 Grant
83 Graves
85 Grayson
87 Green
89 Greenup
91 Hancock
93 Hardin
95 Harlan
97 Harrison
99 Hart
101 Henderson

103 Henry
105 Hickman
107 Hopkins
109 Jackson
111 Jefferson
113 Jessamine
115 Johnson
117 Kenton
119 Knott
121 Knox
123 Larue
125 Laurel
127 Lawrence
129 Lee
131 Leslie
133 Letcher
135 Lewis
137 Lincoln
139 Livingston
141 Logan
143 Lyon
145 Mc Cracken
147 Mc Creary
149 Mc Lean
151 Madison
153 Magoffin
155 Marion
157 Marshall
159 Martin
161 Mason
163 Meade
165 Menifee
167 Mercer
169 Metcalfe
171 Monroe
173 Montgomery
175 Morgan

21 Kentucky (Cont.)

177 Muhlenberg
179 Nelson
181 Nicholas
183 Ohio
185 Oldham
187 Owen
189 Owsley
191 Pendleton
193 Perry
195 Pike
197 Powell
199 Pulaski
201 Robertson
203 Rockcastle
205 Rowan
207 Russell
209 Scott
211 Shelby
213 Simpson
215 Spencer
217 Taylor
219 Todd
221 Trigg
223 Trimble
225 Union
227 Warren
229 Washington
231 Wayne
233 Webster
235 Whitley
237 Wolfe
239 Woodford

22 Louisiana

1 Acadia
3 Allen
5 Ascension
7 Assumption
9 Avoyelles
11 Beauregard
13 Bienville
15 Bossier
17 Caddo
19 Calcasieu
21 Caldwell
23 Cameron
25 Catahoula
27 Claiborne
29 Concordia
31 De Soto
33 East Baton Rouge
35 East Carroll
37 East Feliciana
39 Evangeline
41 Franklin
43 Grant
45 Iberia
47 Iberville
49 Jackson
51 Jefferson
53 Jefferson Davis
55 Lafayette
57 Lafourche
59 La Salle
61 Lincoln
63 Livingston
65 Madison
67 Morehouse
69 Natchitoches
71 Orleans
73 Ouachita
75 Plaquemines
77 Pointe Coupee
79 Rapides
81 Red River
83 Richland
85 Sabine
87 St Bernard
89 St Charles
91 St Helena
93 St James
95 St John the Baptist
97 St Landry
99 St Martin
101 St Mary
103 St Tammany
105 Tangipahoa
107 Tensas
109 Terrebonne
111 Union
113 Vermilion
115 Vernon
117 Washington
119 Webster
121 West Baton Rouge
123 West Carroll
125 West Feliciana
127 Winn

23 Maine

1 Androscoggin
3 Aroostook
5 Cumberland
7 Franklin
9 Hancock
11 Kennebec
13 Knox
15 Lincoln
17 Oxford
19 Penobscot
21 Piscataquis
23 Sagadahoc
25 Somerset
27 Waldo
29 Washington
31 York

24 Maryland

1 Allegany
3 Anne Arundel
5 Baltimore
9 Calvert
11 Caroline
13 Carroll
15 Cecil
17 Charles
19 Dorchester
21 Frederick
23 Garrett
25 Harford
27 Howard
29 Kent
31 Montgomery
33 Prince Georges
35 Queen Annes
37 St. Marys
39 Somerset
41 Talbot
43 Washington
45 Wicomico
47 Worcester
510 Baltimore City

25 Massachusetts

1 Barnstable
3 Berkshire
5 Bristol
7 Dukes
9 Essex
11 Franklin
13 Hampden
15 Hampshire
17 Middlesex
19 Nantucket
21 Norfolk
23 Plymouth
25 Suffolk
27 Worcester

26 Michigan

1 Alcona
3 Alger
5 Allegan
7 Alpena
9 Antrim
11 Arenac
13 Baraga
15 Barry
17 Bay
19 Benzie

26 Michigan (Cont.)

21 Berrien
23 Branch
25 Calhoun
27 Cass
29 Charlevoix
31 Cheboygan
33 Chippewa
35 Clare
37 Clinton
39 Crawford
41 Delta
43 Dickinson
45 Eaton
47 Emmet
49 Genesee
51 Gladwin
53 Gogebic
55 Grand Traverse
57 Gratiot
59 Hillsdale
61 Houghton
63 Huron
65 Ingham
67 Ionia
69 Iosco
71 Iron
73 Isabella
75 Jackson
77 Kalamazoo
79 Kalkaska
81 Kent
83 Keweenaw
85 Lake
87 Lapeer
89 Leelanau
91 Lenawee
93 Livingston
95 Luce
97 Mackinac
99 Macomb
101 Manistee
103 Marquette
105 Mason
107 Mecosta
109 Menominee
111 Midland
113 Missaukee
115 Monroe
117 Montcalm
119 Montmorency
121 Muskegon
123 Newaygo
125 Oakland
127 Oceana
129 Ogemaw
131 Ontonagon
133 Osceola
135 Oscoda
137 Otsego
139 Ottawa
141 Presque Isle
143 Roscommon
145 Saginaw
147 St. Clair
149 St. Joseph
151 Sanilac
153 Schoolcraft
155 Shiawassee
157 Tuscola
159 Van Buren
161 Washtenaw
163 Wayne
165 Wexford

27 Minnesota

1 Aitkin
3 Anoka
5 Becker
7 Beltrami
9 Benton
11 Big Stone
13 Blue Earth
15 Brown
17 Carlton
19 Carver
21 Cass
23 Chippewa
25 Chisago
27 Clay
29 Clearwater
31 Cook
33 Cottonwood
35 Crow Wing
37 Dakota
39 Dodge
41 Douglas
43 Faribault
45 Fillmore
47 Freeborn
49 Goodhue
51 Grant
53 Hennepin
55 Houston
57 Hubbard
59 Isanti
61 Itasca
63 Jackson
65 Kanabec
67 Kandiyohi
69 Kittson
71 Koochiching

73 Lac Qui Parle
75 Lake
77 Lake of the Woods
79 Le Sueur
81 Lincoln
83 Lyon
85 Mc Leod
87 Mahnomen
89 Marshall
91 Martin
93 Meeker
95 Mille Lacs
97 Morrison
99 Mower
101 Murray
103 Nicollet
105 Nobles
107 Norman
109 Olmsted
111 Otter Tail
113 Pennington
115 Pine
117 Pipestone
119 Polk
121 Pope
123 Ramsey
125 Red Lake
127 Redwood
129 Renville
131 Rice
133 Rock
135 Roseau
137 St. Louis
139 Scott
141 Sherburne
143 Sibley
145 Stearns
147 Steele
149 Stevens
151 Swift
153 Todd
155 Traverse
157 Wabasha
159 Wadena
161 Waseca
163 Washington
165 Watonwan
167 Wilkin
169 Winona
171 Wright
173 Yellow Medicine

28 Mississippi

1 Adams
3 Alcorn
5 Amite
7 Attala
9 Benton
11 Bolivar
13 Calhoun
15 Carroll
17 Chickasaw

28 Mississippi (Cont.)

19 Choctaw
21 Claiborne
23 Clarke
25 Clay
27 Coahoma
29 Copiah
31 Covington
33 De Soto
35 Forrest
37 Franklin
39 George
41 Greene
43 Grenada
45 Hancock
47 Harrison
49 Hinds
51 Holmes
53 Humphreys
55 Issaquena
57 Itawamba
59 Jackson
61 Jasper
63 Jefferson
65 Jefferson Davis
67 Jones
69 Kemper
71 Lafayette
73 Lamar
75 Lauderdale
77 Lawrence
79 Leake
81 Lee
83 Leflore
85 Lincoln
87 Lowndes
89 Madison
91 Marion
93 Marshall
95 Monroe
97 Montgomery
99 Neshoba
101 Newton
103 Noxubee
105 Oktibbeha
107 Panola
109 Pearl River
111 Perry
113 Pike
115 Pontotoc
117 Prentiss
119 Quitman
121 Rankin
123 Scott
125 Sharkey
127 Simpson
129 Smith
131 Stone
133 Sunflower
135 Tallahatchie
137 Tate
139 Tippah
141 Tishomingo
143 Tunica
145 Union
147 Walthall
149 Warren
151 Washington
153 Wayne
155 Webster
157 Wilkinson
159 Winston
161 Yalobusha
163 Yazoo

29 Missouri

1 Adair
3 Andrew
5 Atchison
7 Audrain
9 Barry
11 Barton
13 Bates
15 Benton
17 Bollinger
19 Boone
21 Buchanan
23 Butler
25 Caldwell
27 Callaway
29 Camden
31 Cape Girardeau
33 Carroll
35 Carter
37 Cass
39 Cedar
41 Chariton
43 Christian
45 Clark
47 Clay
49 Clinton
51 Cole
53 Cooper

55 Crawford
57 Dade
59 Dallas
61 Daviess
63 De Kalb
65 Dent
67 Douglas
69 Dunklin
71 Franklin
73 Gasconade
75 Gentry
77 Greene
79 Grundy
81 Harrison
83 Henry
85 Hickory
87 Holt
89 Howard
91 Howell
93 Iron
95 Jackson
97 Jasper
99 Jefferson
101 Johnson
103 Knox
105 Laclede
107 Lafayette
109 Lawrence
111 Lewis
113 Lincoln
115 Linn
117 Livingston
119 Mc Donald
121 Macon
123 Madison
125 Maries
127 Marion
129 Mercer
131 Miller
133 Mississippi
135 Moniteau
137 Monroe
139 Montgomery
141 Morgan
143 New Madrid
145 Newton
147 Nodaway
149 Oregon
151 Osage
153 Ozark
155 Pemiscot
157 Perry
159 Pettis
161 Phelps
163 Pike
165 Platte
167 Polk
169 Pulaski
171 Putnam
173 Ralls
175 Randolph
177 Ray
179 Reynolds
181 Ripley
183 St. Charles
185 St. Clair
186 Ste Genevieve
187 St. Francois
189 St. Louis
195 Saline
197 Schuyler
199 Scotland

29 Missouri (Cont.)

201 Scott
203 Shannon
205 Shelby
207 Stoddard
209 Stone
211 Sullivan
213 Taney
215 Texas
217 Vernon
219 Warren
221 Washington
223 Wayne
225 Webster
227 Worth
229 Wright
510 St. Louis City

30 Montana

1 Beaverhead
3 Big Horn
5 Blaine
7 Broadwater
9 Carbon
11 Carter
13 Cascade
15 Chouteau
17 Custer
19 Daniels
21 Dawson
23 Deer Lodge
25 Fallon
27 Fergus
29 Flathead
31 Gallatin
33 Garfield
35 Glacier
37 Golden Valley
39 Granite
41 Hill
43 Jefferson
45 Judith Basin
47 Lake
49 Lewis and Clark
51 Liberty
53 Lincoln
55 Mc Cone
57 Madison
59 Meagher
61 Mineral
63 Missoula
65 Musselshell
67 Park
69 Petroleum
71 Phillips
73 Pondera
75 Powder River
77 Powell
79 Prairie
81 Ravalli
83 Richland
85 Roosevelt
87 Rosebud
89 Sanders
91 Sheridan
93 Silver Bow
95 Stillwater
97 Sweet Grass
99 Teton
101 Toole
103 Treasure
105 Valley
107 Wheatland
109 Wibaux
111 Yellowstone
113 Yellowstone National Park

31 Nebraska

1 Adams
3 Antelope
5 Arthur
7 Banner
9 Blaine
11 Boone
13 Box Butte
15 Boyd
17 Brown
19 Buffalo
21 Burt
23 Butler
25 Cass
27 Cedar
29 Chase

31 Cherry
33 Cheyenne
35 Clay
37 Colfax
39 Cuming
41 Custer
43 Dakota
45 Dawes
47 Dawson
49 Deuel
51 Dixon
53 Dodge
55 Douglas
57 Dundy
59 Fillmore
61 Franklin
63 Frontier
65 Furnas
67 Gage
69 Garden
71 Garfield
73 Gosper
75 Grant
77 Greeley
79 Hall
81 Hamilton
83 Harlan
85 Hayes
87 Hitchcock
89 Holt
91 Hooker
93 Howard
95 Jefferson
97 Johnson
99 Kearney
101 Keith
103 Keya Paha
105 Kimball
107 Knox
109 Lancaster
111 Lincoln
113 Logan
115 Loup
117 Mc Pherson
119 Madison
121 Merrick
123 Morrill
125 Nance
127 Nemaha
129 Nuckolls
131 Otoe
133 Pawnee
135 Perkins
137 Phelps
139 Pierce
141 Platte
143 Polk
145 Red Willow
147 Richardson
149 Rock
151 Saline
153 Sarpy
155 Saunders
157 Scotts Bluff
159 Seward
161 Sheridan
163 Sherman
165 Sioux
167 Stanton
169 Thayer
171 Thomas
173 Thurston
175 Valley
177 Washington
179 Wayne
181 Webster
183 Wheeler
185 York

32 Nevada

1 Churchill
3 Clark
5 Douglas
7 Elko
9 Esmeralda
11 Eureka
13 Humboldt
15 Lander
17 Lincoln
19 Lyon
21 Mineral
23 Nye
27 Pershing
29 Storey
31 Washoe
33 White Pine
510 Carson City

33 New Hampshire

1 Belknap
3 Carroll
5 Cheshire
7 Coos
9 Grafton
11 Hillsborough
13 Merrimack
15 Rockingham
17 Strafford
19 Sullivan

34 New Jersey

1 Atlantic
3 Bergen
5 Burlington
7 Camden
9 Cape May
11 Cumberland
13 Essex
15 Gloucester
17 Hudson
19 Hunterdon
21 Mercer
23 Middlesex
25 Monmouth
27 Morris
29 Ocean
31 Passaic
33 Salem
35 Somerset
37 Sussex
39 Union
41 Warren

35 New Mexico

1 Bernalillo
3 Catron
5 Chaves
6 Cibola
7 Colfax
9 Curry
11 De Baca
13 Dona Ana
15 Eddy
17 Grant
19 Guadalupe
21 Harding
23 Hidalgo
25 Lea
27 Lincoln
28 Los Alamos
29 Luna
31 Mc Kinley
33 Mora
35 Otero
37 Quay
39 Rio Arriba
41 Roosevelt
43 Sandoval
45 San Juan

47 San Miguel
49 Santa Fe
51 Sierra
53 Socorro
55 Taos
57 Torrance
59 Union
61 Valencia

36 New York

1 Albany
3 Allegany
5 Bronx
7 Broome
9 Cattaraugus
11 Cayuga
13 Chautauqua
15 Chemung
17 Chenango
19 Clinton
21 Columbia
23 Cortland
25 Delaware
27 Dutchess
29 Erie
31 Essex
33 Franklin
35 Fulton
37 Genesee
39 Greene
41 Hamilton
43 Herkimer
45 Jefferson
47 Kings
49 Lewis
51 Livingston
53 Madison
55 Monroe
57 Montgomery
59 Nassau
61 New York
63 Niagara
65 Oneida
67 Onondaga
69 Ontario
71 Orange
73 Orleans
75 Oswego
77 Otsego
79 Putnam
81 Queens
83 Rensselaer
85 Richmond
87 Rockland
89 St. Lawrence
91 Saratoga
93 Schenectady
95 Schoharie
97 Schuyler
99 Seneca
101 Steuben
103 Suffolk
105 Sullivan
107 Tioga
109 Tompkins
111 Ulster
113 Warren
115 Washington
117 Wayne
119 Westchester
121 Wyoming
123 Yates

37 North Carolina

1 Alamance
3 Alexander
5 Alleghany
7 Anson
9 Ashe
11 Avery
13 Beaufort
15 Bertie
17 Bladen
19 Brunswick
21 Buncombe
23 Burke
25 Cabarrus
27 Caldwell
29 Camden

37 North Carolina (Cont.)

31 Carteret
33 Caswell
35 Catawba
37 Chatham
39 Cherokee
41 Chowan
43 Clay
45 Cleveland
47 Columbus
49 Craven
51 Cumberland
53 Currituck
55 Dare
57 Davidson
59 Davie
61 Duplin
63 Durham
65 Edgecombe
67 Forsyth
69 Franklin
71 Gaston
73 Gates
75 Graham
77 Granville
79 Greene
81 Guilford
83 Halifax
85 Harnett
87 Haywood
89 Henderson
91 Hertford
93 Hoke
95 Hyde
97 Iredell
99 Jackson
101 Johnston
103 Jones
105 Lee
107 Lenoir
109 Lincoln
111 Mc Dowell
113 Macon
115 Madison
117 Martin
119 Mecklenburg
121 Mitchell
123 Montgomery
125 Moore
127 Nash
129 New Hanover
131 Northampton
133 Onslow
135 Orange
137 Pamlico
139 Pasquotank
141 Pender
143 Perquimans
145 Person
147 Pitt
149 Polk
151 Randolph
153 Richmond
155 Robeson
157 Rockingham
159 Rowan
161 Rutherford
163 Sampson
165 Scotland
167 Stanly
169 Stokes
171 Surry
173 Swain
175 Transylvania
177 Tyrrell
179 Union

181 Vance
183 Wake
185 Warren
187 Washington
189 Watauga
191 Wayne
193 Wilkes
195 Wilson
197 Yadkin
199 Yancey

38 North Dakota

1 Adams
3 Barnes
5 Benson
7 Billings
9 Bottineau
11 Bowman
13 Burke
15 Burleigh
17 Cass
19 Cavalier
21 Dickey
23 Divide
25 Dunn
27 Eddy
29 Emmons
31 Foster
33 Golden Valley
35 Grand Forks
37 Grant
39 Griggs
41 Hettinger
43 Kidder
45 La Moure
47 Logan
49 Mc Henry
51 Mc Intosh
53 Mc Kenzie
55 Mc Lean
57 Mercer
59 Morton
61 Mountrail
63 Nelson
65 Oliver
67 Pembina
69 Pierce
71 Ramsey
73 Ransom
75 Renville
77 Richland
79 Rolette
81 Sargent
83 Sheridan
85 Sioux
87 Slope
89 Stark
91 Steele
93 Stutsman
95 Towner
97 Traill
99 Walsh
101 Ward
103 Wells
105 Williams

39 Ohio

1 Adams
3 Allen
5 Ashland
7 Ashtabula
9 Athens
11 Auglaize
13 Belmont
15 Brown
17 Butler
19 Carroll
21 Champaign
23 Clark
25 Clermont
27 Clinton
29 Columbiana
31 Coshocton
33 Crawford
35 Cuyahoga
37 Darke
39 Defiance
41 Delaware
43 Erie
45 Fairfield
47 Fayette
49 Franklin
51 Fulton
53 Gallia
55 Geauga
57 Greene
59 Guernsey

39 Ohio (Cont.)

61 Hamilton
63 Hancock
65 Hardin
67 Harrison
69 Henry
71 Highland
73 Hocking
75 Holmes
77 Huron
79 Jackson
81 Jefferson
83 Knox
85 Lake
87 Lawrence
89 Licking
91 Logan
93 Lorain
95 Lucas
97 Madison
99 Mahoning
101 Marion
103 Medina
105 Meigs
107 Mercer
109 Miami
111 Monroe
113 Montgomery
115 Morgan
117 Morrow
119 Muskingum
121 Noble
123 Ottawa
125 Paulding
127 Perry
129 Pickaway
131 Pike
133 Portage
135 Preble
137 Putnam
139 Richland
141 Ross
143 Sandusky
145 Scioto
147 Seneca
149 Shelby
151 Stark
153 Summit
155 Trumbull
157 Tuscarawas
159 Union
161 Van Wert
163 Vinton
165 Warren
167 Washington
169 Wayne
171 Williams
173 Wood
175 Wyandot

40 Oklahoma

1 Adair
3 Alfalfa
5 Atoka

7 Beaver
9 Beckham
11 Blaine
13 Bryan
15 Caddo
17 Canadian
19 Carter
21 Cherokee
23 Choctaw
25 Cimarron
27 Cleveland
29 Coal
31 Comanche
33 Cotton
35 Craig
37 Creek
39 Custer
41 Delaware
43 Dewey
45 Ellis
47 Garfield
49 Garvin
51 Grady
53 Grant
55 Greer
57 Harmon
59 Harper
61 Haskell
63 Hughes
65 Jackson
67 Jefferson
69 Johnston
71 Kay
73 Kingfisher
75 Kiowa
77 Latimer
79 Le Flore
81 Lincoln
83 Logan
85 Love
87 Mc Clain
89 Mc Curtain
91 Mc Intosh
93 Major
95 Marshall
97 Mayes
99 Murray
101 Muskogee
103 Noble
105 Nowata
107 Okfuskee
109 Oklahoma
111 Okmulgee
113 Osage
115 Ottawa
117 Pawnee
119 Payne
121 Pittsburg
123 Pontotoc
125 Pottawatomie
127 Pushmataha
129 Roger Mills
131 Rogers
133 Seminole
135 Sequoyah
137 Stephens
139 Texas
141 Tillman
143 Tulsa
145 Wagoner
147 Washington
149 Washita
151 Woods
153 Woodward

41 Oregon

1 Baker
3 Benton
5 Clackamas
7 Clatsop
9 Columbia
11 Coos
13 Crook
15 Curry
17 Deschutes
19 Douglas
21 Gilliam
23 Grant
25 Harney
27 Hood River
29 Jackson
31 Jefferson
33 Josephine
35 Klamath
37 Lake
39 Lane
41 Lincoln
43 Linn
45 Malheur
47 Marion
49 Morrow
51 Multnomah
53 Polk
55 Sherman
57 Tillamook
59 Umatilla
61 Union

41 Oregon (Cont.)

63 Wallowa
65 Wasco
67 Washington
69 Wheeler
71 Yamhill

42 Pennsylvania

1 Adams
3 Allegheny
5 Armstrong
7 Beaver
9 Bedford
11 Berks
13 Blair
15 Bradford
17 Bucks
19 Butler
21 Cambria
23 Cameron
25 Carbon
27 Centre
29 Chester
31 Clarion
33 Clearfield
35 Clinton
37 Columbia
39 Crawford
41 Cumberland
43 Dauphin
45 Delaware
47 Elk
49 Erie
51 Fayette
53 Forest
55 Franklin
57 Fulton
59 Greene
61 Huntingdon
63 Indiana
65 Jefferson
67 Juniata
69 Lackawanna
71 Lancaster
73 Lawrence
75 Lebanon
77 Lehigh
79 Luzerne
81 Lycoming
83 Mc Kean
85 Mercer
87 Mifflin
89 Monroe
91 Montgomery
93 Montour

95 Northampton
97 Northumberland
99 Perry
101 Philadelphia
103 Pike
105 Potter
107 Schuylkill
109 Snyder
111 Somerset
113 Sullivan
115 Susquehanna
117 Tioga
119 Union
121 Venango
123 Warren
125 Washington
127 Wayne
129 Westmoreland
131 Wyoming
133 York

44 Rhode Island

1 Bristol
3 Kent
5 Newport
7 Providence
9 Washington

45 South Carolina

1 Abbeville
3 Aiken
5 Allendale
7 Anderson
9 Bamberg
11 Barnwell
13 Beaufort
15 Berkeley
17 Calhoun
19 Charleston
21 Cherokee
23 Chester
25 Chesterfield
27 Clarendon
29 Colleton
31 Darlington
33 Dillon
35 Dorchester
37 Edgefield
39 Fairfield
41 Florence
43 Georgetown
45 Greenville
47 Greenwood
49 Hampton
51 Horry
53 Jasper
55 Kershaw
57 Lancaster
59 Laurens
61 Lee
63 Lexington
65 Mc Cormick
67 Marion
69 Marlboro
71 Newberry
73 Oconee
75 Orangeburg
77 Pickens
79 Richland
81 Saluda
83 Spartanburg
85 Sumter
87 Union
89 Williamsburg
91 York

46 South Dakota

3 Aurora
5 Beadle
7 Bennett
9 Bon Homme
11 Brookings
13 Brown
15 Brule
17 Buffalo
19 Butte
21 Campbell
23 Charles Mix
25 Clark
27 Clay
29 Codington
31 Corson
33 Custer
35 Davison
37 Day
39 Deuel
41 Dewey
43 Douglas
45 Edmunds
47 Fall River
49 Faulk
51 Grant
53 Gregory
55 Haakon
57 Hamlin
59 Hand
61 Hanson
63 Harding
65 Hughes
67 Hutchinson
69 Hyde
71 Jackson
73 Jerauld
75 Jones

46 South Dakota (Cont.)

77 Kingsbury
79 Lake
81 Lawrence
83 Lincoln
85 Lyman
87 Mc Cook
89 Mc Pherson
91 Marshall
93 Meade
95 Mellette
97 Miner
99 Minnehaha
101 Moody
103 Pennington
105 Perkins
107 Potter
109 Roberts
111 Sanborn
113 Shannon
115 Spink
117 Stanley
119 Sully
121 Todd
123 Tripp
125 Turner
127 Union
129 Walworth
135 Yankton
137 Ziebach

47 Tennessee

1 Anderson
3 Bedford
5 Benton
7 Bledsoe
9 Blount
11 Bradley
13 Campbell
15 Cannon
17 Carroll
19 Carter
21 Cheatham
23 Chester
25 Claiborne
27 Clay

29 Cocke
31 Coffee
33 Crockett
35 Cumberland
37 Davidson
39 Decatur
41 De Kalb
43 Dickson
45 Dyer
47 Fayette
49 Fentress
51 Franklin
53 Gibson
55 Giles
57 Grainger
59 Greene
61 Grundy
63 Hamblen
65 Hamilton
67 Hancock
69 Hardeman
71 Hardin
73 Hawkins
75 Haywood
77 Henderson
79 Henry
81 Hickman
83 Houston
85 Humphreys
87 Jackson
89 Jefferson
91 Johnson
93 Knox
95 Lake
97 Lauderdale
99 Lawrence
101 Lewis
103 Lincoln
105 Loudon
107 Mc Minn
109 Mc Nairy
111 Macon
113 Madison
115 Marion
117 Marshall
119 Maury
121 Meigs
123 Monroe
125 Montgomery
127 Moore
129 Morgan
131 Obion
133 Overton
135 Perry
137 Pickett
139 Polk
141 Putnam
143 Rhea
145 Roane
147 Robertson
149 Rutherford
151 Scott
153 Sequatchie
155 Sevier
157 Shelby
159 Smith
161 Stewart
163 Sullivan
165 Sumner
167 Tipton
169 Trousdale
171 Unicoi
173 Union
175 Van Buren
177 Warren
179 Washington
181 Wayne
183 Weakley
185 White
187 Williamson
189 Wilson

48 Texas

1 Anderson
3 Andrews
5 Angelina
7 Aransas
9 Archer
11 Armstrong
13 Atascosa
15 Austin
17 Bailey
19 Bandera
21 Bastrop
23 Baylor
25 Bee
27 Bell
29 Bexar
31 Blanco
33 Borden
35 Bosque
37 Bowie
39 Brazoria
41 Brazos
43 Brewster
45 Briscoe
47 Brooks
49 Brown
51 Burleson
53 Burnet
55 Caldwell
57 Calhoun
59 Callahan
61 Cameron
63 Camp
65 Carson
67 Cass
69 Castro
71 Chambers
73 Cherokee
75 Childress
77 Clay
79 Cochran
81 Coke

48 Texas (Cont.)

83 Coleman
85 Collin
87 Collingsworth
89 Colorado
91 Comal
93 Comanche
95 Concho
97 Cooke
99 Coryell
101 Cottle
103 Crane
105 Crockett
107 Crosby
109 Culberson
111 Dallam
113 Dallas
115 Dawson
117 Deaf Smith
119 Delta
121 Denton
123 De Witt
125 Dickens
127 Dimmit
129 Donley
131 Duval
133 Eastland
135 Ector
137 Edwards
139 Ellis
141 El Paso
143 Erath
145 Falls
147 Fannin
149 Fayette
151 Fisher
153 Floyd
155 Foard
157 Fort Bend

159 Franklin
161 Freestone
163 Frio
165 Gaines
167 Galveston
169 Garza
171 Gillespie
173 Glasscock
175 Goliad
177 Gonzales
179 Gray
181 Grayson
183 Gregg
185 Grimes
187 Guadalupe
189 Hale
191 Hall
193 Hamilton
195 Hansford
197 Hardeman
199 Hardin
201 Harris
203 Harrison
205 Hartley
207 Haskell
209 Hays
211 Hemphill
213 Henderson
215 Hidalgo
217 Hill
219 Hockley
221 Hood
223 Hopkins
225 Houston
227 Howard
229 Hudspeth
231 Hunt
233 Hutchinson
235 Irion
237 Jack
239 Jackson
241 Jasper
243 Jeff Davis
245 Jefferson
247 Jim Hogg
249 Jim Wells
251 Johnson
253 Jones
255 Karnes
257 Kaufman
259 Kendall
261 Kenedy
263 Kent
265 Kerr
267 Kimble
269 King
271 Kinney
273 Kleberg
275 Knox
277 Lamar
279 Lamb
281 Lampasas
283 La Salle
285 Lavaca
287 Lee
289 Leon
291 Liberty
293 Limestone
295 Lipscomb
297 Live Oak
299 Llano
301 Loving
303 Lubbock
305 Lynn
307 Mc Culloch
309 Mc Lennan
311 Mc Mullen
313 Madison
315 Marion
317 Martin
319 Mason
321 Matagorda
323 Maverick
325 Medina
327 Menard
329 Midland
331 Milam
333 Mills
335 Mitchell
337 Montague
339 Montgomery
341 Moore
343 Morris
345 Motley
347 Nacogdoches
349 Navarro
351 Newton
353 Nolan
355 Nueces
357 Ochiltree
359 Oldham
361 Orange
363 Palo Pinto
365 Panola
367 Parker
369 Parmer
371 Pecos
373 Polk
375 Potter
377 Presidio
379 Rains
381 Randall
383 Reagan
385 Real
387 Red River
389 Reeves
391 Refugio
393 Roberts
395 Robertson
397 Rockwall
399 Runnels
401 Rusk
403 Sabine
405 San Augustine
407 San Jacinto
409 San Patricio
411 San Saba
413 Schleicher
415 Scurry
417 Shackelford
419 Shelby
421 Sherman
423 Smith
425 Somervell

48 Texas (Cont.)

427 Starr
429 Stephens
431 Sterling
433 Stonewall
435 Sutton
437 Swisher
439 Tarrant
441 Taylor
443 Terrell
445 Terry
447 Throckmorton
449 Titus
451 Tom Green
453 Travis
455 Trinity
457 Tyler
459 Upshur
461 Upton
463 Uvalde
465 Val Verde
467 Van Zandt
469 Victoria
471 Walker
473 Waller
475 Ward
477 Washington
479 Webb
481 Wharton
483 Wheeler

485 Wichita
487 Wilbarger
489 Willacy
491 Williamson
493 Wilson
495 Winkler
497 Wise
499 Wood
501 Yoakum
503 Young
505 Zapata
507 Zavala

49 Utah

1 Beaver
3 Box Elder
5 Cache
7 Carbon
9 Daggett
11 Davis
13 Duchesne
15 Emery
17 Garfield
19 Grand
21 Iron
23 Juab
25 Kane
27 Millard
29 Morgan
31 Piute
33 Rich
35 Salt Lake
37 San Juan
39 Sanpete
41 Sevier
43 Summit
45 Tooele
47 Uintah
49 Utah
51 Wasatch
53 Washington
55 Wayne
57 Weber

50 Vermont

1 Addison
3 Bennington
5 Caledonia
7 Chittenden
9 Essex
11 Franklin
13 Grand Isle
15 Lamoille
17 Orange
19 Orleans
21 Rutland
23 Washington
25 Windham
27 Windsor

51 Virginia

1 Accomack
3 Albemarle
5 Alleghany
7 Amelia
9 Amherst
11 Appomattox
13 Arlington
15 Augusta
17 Bath
19 Bedford
21 Bland
23 Botetourt
25 Brunswick
27 Buchanan
29 Buckingham
31 Campbell
33 Caroline
35 Carroll
36 Charles City
37 Charlotte
41 Chesterfield
43 Clarke
45 Craig
47 Culpeper
49 Cumberland
51 Dickenson
53 Dinwiddie
57 Essex
59 Fairfax
61 Fauquier
63 Floyd
65 Fluvanna
67 Franklin
69 Frederick
71 Giles
73 Gloucester
75 Goochland
77 Grayson
79 Greene
81 Greensville
83 Halifax
85 Hanover
87 Henrico
89 Henry
91 Highland
93 Isle of Wight
95 James City
97 King and Queen
99 King George
101 King William
103 Lancaster
105 Lee
107 Loudoun
109 Louisa
111 Lunenberg
113 Madison
115 Mathews
117 Mecklenburg
119 Middlesex
121 Montgomery
125 Nelson
127 New Kent
131 Northampton
133 Northumberland
135 Nottoway
137 Orange
139 Page
141 Patrick
143 Pittsylvania
145 Powhatan
147 Prince Edward
149 Prince George
153 Prince William
155 Pulaski
157 Rappahannock
159 Richmond
161 Roanoke
163 Rockbridge
165 Rockingham

51 Virginia (Cont.)

167 Russell
169 Scott
171 Shenandoah
173 Smyth
175 Southampton
177 Spotsylvania
179 Stafford
181 Surry
183 Sussex
185 Tazewell
187 Warren
191 Washington
193 Westmoreland
195 Wise
197 Wythe
199 York
510 Alexandria City
515 Bedford City
520 Bristol City
530 Buena Vista City

540 Charlottesville City
550 Chesapeake City
560 Clifton Forge City
570 Colonial Heights City
580 Covington City
590 Danville City
595 Emporia City
600 Fairfax City
610 Falls Church City
620 Franklin City
630 Fredericksburg City
640 Galax City
650 Hampton City
660 Harrisonburg City
670 Hopewell City
678 Lexington City
680 Lynchburg City
683 Manassas City
685 Manassas Park City
690 Martinsville City
700 Newport News City
710 Norfolk City
720 Norton City
730 Petersburg City
735 Poquoson
740 Portsmouth City
750 Radford City
760 Richmond City
770 Roanoke City
775 Salem City
780 South Boston City
790 Staunton City
800 Suffolk City
810 Virginia Beach City
820 Waynesboro City
830 Williamsburg City
840 Winchester City

53 Washington

1 Adams
3 Asotin
5 Benton
7 Chelan
9 Clallam
11 Clark
13 Columbia
15 Cowlitz
17 Douglas
19 Ferry
21 Franklin
23 Garfield
25 Grant
27 Grays Harbor
29 Island
31 Jefferson
33 King
35 Kitsap
37 Kittitas
39 Klickitat
41 Lewis
43 Lincoln
45 Mason
47 Okanogan
49 Pacific
51 Pend Oreille
53 Pierce
55 San Juan
57 Skagit
59 Skamania
61 Snohomish
63 Spokane
65 Stevens
67 Thurston
69 Wahkiakum
71 Walla Walla
73 Whatcom
75 Whitman
77 Yakima

54 West Virginia

1 Barbour
3 Berkeley
5 Boone
7 Braxton
9 Brooke
11 Cabell
13 Calhoun
15 Clay
17 Doddridge
19 Fayette
21 Gilmer
23 Grant
25 Greenbrier
27 Hampshire
29 Hancock
31 Hardy
33 Harrison
35 Jackson
37 Jefferson
39 Kanawha
41 Lewis
43 Lincoln
45 Logan
47 Mc Dowell
49 Marion
51 Marshall
53 Mason
55 Mercer
57 Mineral
59 Mingo
61 Monongalia
63 Monroe
65 Morgan
67 Nicholas
69 Ohio
71 Pendleton
73 Pleasants
75 Pocahontas
77 Preston
79 Putnam
81 Raleigh
83 Randolph
85 Ritchie
87 Roane
89 Summers
91 Taylor
93 Tucker
95 Tyler
97 Upshur
99 Wayne
101 Webster
103 Wetzel
105 Wirt
107 Wood
109 Wyoming

55 Wisconsin

1 Adams
3 Ashland
5 Barron
7 Bayfield
9 Brown
11 Buffalo
13 Burnett
15 Calumet

55 Wisconsin (Cont.)

17 Chippewa
19 Clark
21 Columbia
23 Crawford
25 Dane
27 Dodge
29 Door
31 Douglas
33 Dunn
35 Eau Claire

37 Florence
39 Fond du Lac
41 Forest
43 Grant
45 Green
47 Green Lake
49 Iowa
51 Iron
53 Jackson
55 Jefferson
57 Juneau
59 Kenosha
61 Kewaunee
63 La Crosse
65 Lafayette
67 Langlade
69 Lincoln
71 Manitowoc
73 Marathon
75 Marinette
77 Marquette
78 Menominee
79 Milwaukee
81 Monroe
83 Oconto
85 Oneida
87 Outagamie
89 Ozaukee
91 Pepin
93 Pierce
95 Polk
97 Portage
99 Price
101 Racine
103 Richland
105 Rock
107 Rusk
109 St. Croix
111 Sauk
113 Sawyer
115 Shawano
117 Sheboygan
119 Taylor
121 Trempealeau
123 Vernon
125 Vilas
127 Walworth
129 Washburn
131 Washington
133 Waukesha
135 Waupaca
137 Waushara
139 Winnebago
141 Wood

56 Wyoming

1 Albany
3 Big Horn
5 Campbell
7 Carbon
9 Converse
11 Crook
13 Fremont
15 Goshen
17 Hot Springs
19 Johnson
21 Laramie
23 Lincoln
25 Natrona
27 Niobrara
29 Park
31 Platte
33 Sheridan
35 Sublette
37 Sweetwater
39 Teton
41 Uinta
43 Washakie
45 Weston

72 Puerto Rico

1 Adjuntas
3 Aguada
5 Aguadilla
7 Aguas Buenas
9 Aibonito
11 Anasco
13 Arecibo
15 Arroyo
17 Barceloneta
19 Barranquitas
21 Bayamon
23 Cabo Rojo
25 Caguas
27 Camuy
29 Canovanas
31 Carolina
33 Catano
35 Cayey
37 Ceiba
39 Ciales
41 Cidra
43 Coamo
45 Comerio
47 Corozal
49 Culebra
51 Dorado
53 Fajardo
54 Florida
55 Guanica
57 Guayama
59 Guayanilla
61 Guaynabo
63 Gurabo
65 Hatillo
67 Hormigueros
69 Humacao
71 Isabela
73 Jayuya
75 Juana Diaz
77 Juncos
79 Lajas
81 Lares
83 Las Marias
85 Las Piedras
87 Loiza
89 Luquillo
91 Manati
93 Maricao
95 Maunabo
97 Mayaguez
99 Moca
101 Morovis
103 Naguabo
105 Naranjito
107 Orocovis
109 Patillas
111 Penuelas
113 Ponce
115 Quebradillas
117 Rincon
119 Rio Grande
121 Sabana Grande
123 Salinas
125 San German
127 San Juan
129 San Lorenzo
131 San Sebastian
133 Santa Isabel
135 Toa Alta
137 Toa Baja
139 Trujillo Alto
141 Utuado
143 Vega Alta
145 Vega Baja
147 Vieques
149 Villalba
151 Yabucoa
153 Yauco

78 U.S. Virgin Islands

10 St. Croix

20 St. John
30 St. Thomas

Appendix B

Coastal Counties Included in the Dialing Frame

COASTAL COUNTIES INCLUDED IN THE RDD TELEPHONE FRAME BY WAVE

Code State

1 Alabama

Waves 1-2 & 6
3 Baldwin
97 Mobile

Waves 3-5
3 Baldwin
25 Clarke
53 Escambia
97 Mobile
129 Washington

6 So. California

All Waves
37 Los Angeles
59 Orange
65 Riverside
71 San Bernardino
73 San Diego
83 Santa Barbara
111 Ventura

6 No. California

All Waves
1 Alameda
13 Contra Costa
15 Del Norte
23 Humboldt
41 Marin
45 Mendocino
53 Monterey
55 Napa
67 Sacramento
69 San Benito
75 San Francisco
77 San Joaquin
79 San Luis Obispo
81 San Mateo
85 Santa Clara
87 Santa Cruz
95 Solano
97 Sonoma
105 Trinity
113 Yolo

9 Connecticut

All Waves
1 Fairfield
3 Hartford
5 Litchfield
7 M iddlesex
9 New Haven
11 New London
13 Tolland
15 Windham

10 Delaware

All Waves
1 Kent
3 New Castle
5 Sussex

12 East Florida

All Waves
3 Baker
7 Bradford
9 Brevard
11 Broward
19 Clay
25 Miami-Dade
31 Duval
35 Flagler
61 Indian River
69 L ake
85 Martin
89 Nassau
93 Okeechobee
95 Orange
97 Osceola
99 Palm Beach
107 Putnam
109 St. Johns
111 St. Lucie
117 Seminole
125 Union
127 Volusia

12 West Florida

All Waves
1 Alachua
5 Bay
13 Calhoun
15 Charlotte
17 Citrus
21 Collier
23 Columbia
27 De Soto
29 Dixie
33 Escambia
37 Franklin
39 Gadsden
41 Gilchrist
43 Glades
45 Gulf
47 Hamilton
49 Hardee
51 Hendry
53 Hernando
55 Highlands
57 Hillsborough
59 Holmes
63 Jackson
65 Jefferson
67 Lafayette
71 Lee
73 Leon
75 Levy
77 Liberty
79 Madison
81 Manatee
83 Marion
87 Monroe
91 Okaloosa
101 Pasco

103 Pinellas
105 Polk
113 Santa Rosa
115 Sarasota
119 Sumter
121 Suwannee
123 Taylor
129 Wakulla
131 Walton
133 Washington

13 Georgia

Waves 1-2 & 6
25 Brantley
29 Bryan
39 Camden
49 Charlton
51 Chatham
103 Effingham
127 Glynn
179 Liberty
183 Long
191 Mc Intosh
305 Wayne

Waves 3-5
1 Appling
25 Brantley
29 Bryan
31 Bulloch
39 Camden
49 Charlton
51 Chatham
103 Effingham
109 Evans
127 Glynn
179 Liberty
183 Long
191 Mc Intosh
229 Pierce
251 Screven
267 Tattnall
299 Ware
305 Wayne

15 Hawaii

All waves
1 Hawaii
3 Honolulu/Oahu
5 Kalawao
7 Kauai
9 Maui
11 Molokai
13 Lanai

22 Louisiana

Waves 1-2 & 6
5 Ascension
7 Assumption
19 Calcasieu
23 Cameron
45 Iberia
51 Jefferson
53 Jefferson Davis
55 Lafayette
57 Lafourche
71 Orleans
75 Plaquemines
87 St Bernard
89 St Charles
93 St James
95 St John the Baptist
99 St Martin
101 St Mary
103 St Tammany
105 Tangipahoa
109 Terrebonne
113 Vermilion
117 Washington

Waves 3-5
1 Acadia
3 Allen
5 Ascension
7 Assumption
11 Beauregard
19 Calcasieu
23 Cameron
33 East Baton Rouge
37 East Feliciana
45 Iberia
47 Iberville
51 Jefferson
53 Jefferson Davis
55 Lafayette
57 Lafourche
63 Livingston
71 Orleans
75 Plaquemines
87 St Bernard
89 St Charles
91 St Helena
93 St James
95 St John the Baptist
97 St Landry
99 St Martin
101 St Mary
103 St Tammany
105 Tangipahoa
109 Terrebonne
113 Vermilion
117 Washington
121 West Baton Rouge
125 West Feliciana

23 Maine

All Waves
1 Androscoggin
5 Cumberland
9 Hancock
11 Kennebec
13 Knox
15 Lincoln
19 Penobscot
23 Sagadahoc
27 Waldo
29 Washington
31 York

24 Maryland

All Waves
3 Anne Arundel
5 Baltimore
9 Calvert
11 Caroline
15 Cecil
17 Charles
19 Dorchester
25 Harford
27 Howard
29 Kent
31 Montgomery
33 Prince Georges
35 Queen Annes
37 St. Marys
39 Somerset
41 Talbot

45 Wicomico
47 Worcester
510 Baltimore City

25 Massachusetts

All Waves
1 Barnstable
5 Bristol
7 Dukes
9 Essex
17 Middlesex
19 Nantucket
21 Norfolk
23 Plymouth
25 Suffolk

28 Mississippi

Waves 1-2 & 6
39 George
45 Hancock
47 Harrison
59 Jackson
109 Pearl River
131 Stone

Waves 3–5
35 Forrest
39 George
41 Greene
45 Hancock
47 Harrison
59 Jackson
109 Pearl River
111 Perry
131 Stone

33 New Hampshire

All Waves
11 Hillsborough
13 Merrimack
15 Rockingham
17 Strafford

34 New Jersey

All Waves
1 Atlantic
3 Bergen
5 Burlington
7 Camden
9 Cape May
11 Cumberland
13 Essex
15 Gloucester
17 Hudson
21 Mercer
23 Middlesex
25 Monmouth
27 Morris
29 Ocean
31 Passaic
33 Salem
35 Somerset
39 Union

36 New York

All Waves
5 Bronx
47 Kings
59 Nassau
61 New York
79 Putnam
81 Queens
85 Richmond
87 Rockland
103 Suffolk
119 Westchester

37 North Carolina

Waves 1-2 & 6
13 Beaufort
15 Bertie
17 Bladen
19 Brunswick
29 Camden
31 Carteret
41 Chowan
47 Columbus
49 Craven
53 Currituck
55 Dare
61 Duplin
65 Edgecombe
73 Gates
79 Greene
83 Halifax
91 Hertford
95 Hyde
103 Jones
107 Lenoir
117 Martin
129 New Hanover
131 Northampton
133 Onslow
137 Pamlico
139 Pasquotank
141 Pender
143 Perquimans
147 Pitt
149 Polk
155 Robeson
163 Sampson
177 Tyrrell
187 Washington
191 Wayne
195 Wilson

Waves 3-5
13 Beaufort
15 Bertie
17 Bladen
19 Brunswick
29 Camden
31 Carteret
41 Chowan
47 Columbus
49 Craven
51 Cumberland
53 Currituck
55 Dare
61 Duplin
63 Durham
65 Edgecombe
69 Franklin
73 Gates
77 Granville
79 Greene
83 Halifax
85 Harnett
91 Hertford
93 Hoke
95 Hyde

101 Johnston
103 Jones
107 Lenoir
117 Martin
125 Moore
127 Nash
129 New Hanover
131 Northampton
133 Onslow
137 Pamlico
139 Pasquotank
141 Pender
143 Perquimans
147 Pitt
149 Polk
153 Richmond
155 Robeson
163 Sampson
165 Scotland
177 Tyrrell
181 Vance
183 Wake
185 Warren
187 Washington
191 Wayne
195 Wilson

41 Oregon

All Waves
3 Benton
5 Clackamas
7 Clatsop
9 Columbia
11 Coos
15 Curry
19 Douglas
29 Jackson
33 Josephine
39 Lane
41 Lincoln
43 Linn
47 Marion
51 Multnomah
53 Polk
57 Tillamook
67 Washington
71 Yamhill

44 Rhode Island

All Waves
1 Bristol
3 Kent
5 Newport
7 Providence
9 Washington

45 South Carolina

Waves 1-2 & 6
13 Beaufort
15 Berkeley
19 Charleston
29 Colleton
35 Dorchester
41 Florence
43 Georgetown
49 Hampton
51 Horry
53 Jasper
67 Marion
89 Williamsburg

Waves 3-5
5 Allendale
9 Bamberg
13 Beaufort
15 Berkeley
19 Charleston
27 Clarendon
29 Colleton
33 Dillon
35 Dorchester
41 Florence
43 Georgetown
49 Hampton
51 Horry
53 Jasper
67 Marion
75 Orangeburg
89 Williamsburg

51 Virginia

All Waves
1 Accomack
33 Caroline
36 Charles City
41 Chesterfield
53 Dinwiddie
57 Essex
73 Gloucester
85 Hanover
87 Henrico
93 Isle of Wight
95 James City
97 King and Queen
99 King George
101 King William
103 Lancaster
115 Mathews
119 Middlesex
127 New Kent
131 Northampton
133 Northumberland
149 Prince George
153 Prince William
159 Richmond
175 Southampton
177 Spotsylvania
179 Stafford
181 Surry
183 Sussex
193 Westmoreland
199 York
550 Chesapeake City
570 Colonial Heights City
630 Fredericksburg City
650 Hampton City
670 Hopewell City
700 Newport News City
710 Norfolk City
730 Petersburg City
735 Poquoson
740 Portsmouth City
760 Richmond City
800 Suffolk City
810 Virginia Beach City
830 Williamsburg City

53 Washington

All Waves
9 Clallam
27 Grays Harbor
29 Island
31 Jefferson

33 King
35 Kitsap
45 Mason
49 Pacific
53 Pierce
55 San Juan
57 Skagit
61 Snohomish
67 Thurston
73 Whatcom

72 Puerto Rico

All Waves
1 Adjuntas
3 Aguada
5 Aguadilla
7 Aguas Buenas
9 Aibonito
11 Anasco
13 Arecibo
15 Arroyo
17 Barceloneta
19 Barranquitas
21 Bayamon
23 Cabo Rojo
25 Caguas
27 Camuy
29 Canovanas
31 Carolina
33 Catano
35 Cayey
37 Ceiba
39 Ciales
41 Cidra
43 Coamo
45 Comerio
47 Corozal
49 Culebra
51 Dorado
53 Fajardo
54 Florida
55 Guanica
57 Guayama
59 Guayanilla
61 Guaynabo
63 Gurabo
65 Hatillo
67 Hormigueros
69 Humacao
71 Isabela
73 Jayuya
75 Juana Diaz
77 Juncos
79 Lajas
81 Lares
83 Las Marias
85 Las Piedras
87 Loiza
89 Luquillo
91 Manati
93 Maricao
95 Maunabo
97 Mayaguez
99 Moca
101 Morovis
103 Naguabo
105 Naranjito
107 Orocovis
109 Patillas
111 Penuelas
113 Ponce
115 Quebradillas
117 Rincon
119 Rio Grande
121 Sabana Grande
123 Salinas
125 San German
127 San Juan
129 San Lorenzo
131 San Sebastian
133 Santa Isabel
135 Toa Alta
137 Toa Baja
139 Trujillo Alto
141 Utuado
143 Vega Alta
145 Vega Baja
147 Vieques
149 Villalba
151 Yabucoa
153 Yauco

78 U.S. Virgin Islands

All Waves
10 St. Croix
20 St. John
30 St. Thomas

Appendix C

Coastal Counties with Saltwater Coastline

State Code	State Name	County Code	County Name	Subregion
Pacific Coast				
6	So. California	37	Los Angeles	1
6	So. California	59	Orange	1
6	So. California	73	San Diego	1
6	So. California	83	Santa Barbara	1
6	So. California	111	Ventura	1
6	No. California	1	Alameda	2
6	No. California	13	Contra Costa	2
6	No. California	15	Del Norte	2
6	No. California	23	Humboldt	2
6	No. California	41	Marin	2
6	No. California	45	Mendocino	2
6	No. California	53	Monterey	2
6	No. California	75	San Francisco	2
6	No. California	79	San Luis Obispo	2
6	No. California	81	San Mateo	2
6	No. California	87	Santa Cruz	2
6	No. California	95	Solano	2
6	No. California	97	Sonoma	2
41	Oregon	7	Clatsop	3
41	Oregon	11	Coos	3
41	Oregon	15	Curry	3
41	Oregon	19	Douglas	3
41	Oregon	39	Lane	3
41	Oregon	41	Lincoln	3
41	Oregon	57	Tillamook	3
53	Washington	9	Clallam	3
53	Washington	27	Grays Harbor	3
53	Washington	29	Island	3
53	Washington	31	Jefferson	3
53	Washington	33	King	3
53	Washington	35	Kitsap	3
53	Washington	45	Mason	3
53	Washington	49	Pacific	3

State Code	State Name	County Code	County Name	Subregion
53	Washington	53	Pierce	3
53	Washington	55	San Juan	3
53	Washington	57	Skagit	3
53	Washington	61	Snohomish	3
53	Washington	67	Thurston	3
53	Washington	73	Whatcom	3
North Atlantic				
9	Connecticut	1	Fairfield	4
9	Connecticut	7	Middlesex	4
9	Connecticut	9	New Haven	4
9	Connecticut	11	New London	4
23	Maine	5	Cumberland	4
23	Maine	9	Hancock	4
23	Maine	11	Kennebec	4
23	Maine	13	Knox	4
23	Maine	15	Lincoln	4
23	Maine	19	Penobscot	4
23	Maine	23	Sagadahoc	4
23	Maine	27	Waldo	4
23	Maine	29	Washington	4
23	Maine	31	York	4
25	Massachusetts	1	Barnstable	4
25	Massachusetts	5	Bristol	4
25	Massachusetts	7	Dukes	4
25	Massachusetts	9	Essex	4
25	Massachusetts	19	Nantucket	4
25	Massachusetts	21	Norfolk	4
25	Massachusetts	23	Plymouth	4
25	Massachusetts	25	Suffolk	4
33	New Hampshire	15	Rockingham	4
33	New Hampshire	17	Strafford	4
44	Rhode Island	1	Bristol	4
44	Rhode Island	3	Kent	4
44	Rhode Island	5	Newport	4

State Code	State Name	County Code	County Name	Subregion
44	Rhode Island	7	Providence	4
44	Rhode Island	9	Washington	4
Mid-Atlantic				
10	Delaware	1	Kent	5
10	Delaware	3	New Castle	5
10	Delaware	5	Sussex	5
24	Maryland	3	Anne Arundel	5
24	Maryland	5	Baltimore	5
24	Maryland	9	Calvert	5
24	Maryland	15	Cecil	5
24	Maryland	17	Charles	5
24	Maryland	19	Dorchester	5
24	Maryland	25	Harford	5
24	Maryland	29	Kent	5
24	Maryland	35	Queen Anne's	5
24	Maryland	37	St. Mary's	5
24	Maryland	39	Somerset	5
24	Maryland	41	Talbot	5
24	Maryland	45	Wicomico	5
24	Maryland	47	Worcester	5
34	New Jersey	1	Atlantic	5
34	New Jersey	9	Cape May	5
34	New Jersey	11	Cumberland	5
34	New Jersey	23	Middlesex	5
34	New Jersey	25	Monmouth	5
34	New Jersey	29	Ocean	5
36	New York	5	Bronx	5
36	New York	47	Kings	5
36	New York	59	Nassau	5
36	New York	81	Queens	5
36	New York	85	Richmond	5
36	New York	103	Suffolk	5
36	New York	119	Westchester	5
51	Virginia	1	Accomack	5

State Code	State Name	County Code	County Name	Subregion
51	Virginia	33	Caroline	5
51	Virginia	57	Essex	5
51	Virginia	73	Gloucester	5
51	Virginia	93	Isle of Wight	5
51	Virginia	95	James City	5
51	Virginia	99	King George	5
51	Virginia	101	King William	5
51	Virginia	103	Lancaster	5
51	Virginia	115	Mathews	5
51	Virginia	119	Middlesex	5
51	Virginia	131	Northampton	5
51	Virginia	133	Northumberland	5
51	Virginia	159	Richmond	5
51	Virginia	181	Surry	5
51	Virginia	193	Westmoreland	5
51	Virginia	199	York	5
51	Virginia	550	Chesapeake	5
51	Virginia	630	Fredericksburg	5
51	Virginia	650	Hampton	5
51	Virginia	700	Newport News	5
51	Virginia	710	Norfolk	5
51	Virginia	735	Poquoson	5
51	Virginia	740	Portsmouth	5
51	Virginia	800	Suffolk	5
51	Virginia	810	Virginia Beach	5
South Atlantic				
13	Georgia	29	Bryan	6
13	Georgia	39	Camden	6
13	Georgia	51	Chatham	6
13	Georgia	127	Glynn	6
13	Georgia	179	Liberty	6
13	Georgia	191	McIntosh	6
37	North Carolina	13	Beaufort	6

State Code	State Name	County Code	County Name	Subregion
37	North Carolina	19	Brunswick	6
37	North Carolina	31	Carteret	6
37	North Carolina	49	Craven	6
37	North Carolina	53	Currituck	6
37	North Carolina	55	Dare	6
37	North Carolina	95	Hyde	6
37	North Carolina	129	New Hanover	6
37	North Carolina	133	Onslow	6
37	North Carolina	137	Pamlico	6
37	North Carolina	141	Pender	6
37	North Carolina	177	Tyrrell	6
45	South Carolina	13	Beaufort	6
45	South Carolina	15	Berkeley	6
45	South Carolina	19	Charleston	6
45	South Carolina	29	Colleton	6
45	South Carolina	43	Georgetown	6
45	South Carolina	51	Horry	6
Gulf of Mexico				
1	Alabama	3	Baldwin	7
1	Alabama	97	Mobile	7
12	East Florida	9	Brevard	6
12	East Florida	11	Broward	6
12	East Florida	25	Dade	6
12	East Florida	31	Duval	6
12	East Florida	35	Flagler	6
12	East Florida	61	Indian River	6
12	East Florida	85	Martin	6
12	East Florida	89	Nassau	6
12	East Florida	99	Palm Beach	6
12	East Florida	109	St. Johns	6
12	East Florida	111	St. Lucie	6
12	East Florida	127	Volusia	6
12	West Florida	5	Bay	7
12	West Florida	15	Charlotte	7

State Code	State Name	County Code	County Name	Subregion
12	West Florida	17	Citrus	7
12	West Florida	21	Collier	7
12	West Florida	29	Dixie	7
12	West Florida	33	Escambia	7
12	West Florida	37	Franklin	7
12	West Florida	45	Gulf	7
12	West Florida	53	Hernando	7
12	West Florida	57	Hillsborough	7
12	West Florida	71	Lee	7
12	West Florida	75	Levy	7
12	West Florida	81	Manatee	7
12	West Florida	87	Monroe	7
12	West Florida	91	Okaloosa	7
12	West Florida	101	Pasco	7
12	West Florida	103	Pinellas	7
12	West Florida	113	Santa Rosa	7
12	West Florida	115	Sarasota	7
12	West Florida	123	Taylor	7
12	West Florida	129	Wakulla	7
12	West Florida	131	Walton	7
22	Louisiana	19	Calcasieu	7
22	Louisiana	23	Cameron	7
22	Louisiana	45	Iberia	7
22	Louisiana	51	Jefferson	7
22	Louisiana	57	Lafourche	7
22	Louisiana	71	Orleans	7
22	Louisiana	75	Plaquemines	7
22	Louisiana	87	St. Bernard	7
22	Louisiana	101	St. Mary	7
22	Louisiana	103	St. Tammany	7
22	Louisiana	105	Tangipahoa	7
22	Louisiana	109	Terrebonne	7
22	Louisiana	113	Vermilion	7
28	Mississippi	45	Hancock	7

	28 Mississippi		47 Harrison	7
	28 Mississippi		59 Jackson	7

State Code	State Name	County Code	County Name	Subregion
U.S. Caribbean				
	72 Puerto Rico		3 Aguada	11
	72 Puerto Rico		5 Aguadilla	11
	72 Puerto Rico		11 Anasco	11
	72 Puerto Rico		13 Arecibo	11
	72 Puerto Rico		15 Arroyo	11
	72 Puerto Rico		17 Barceloneta	11
	72 Puerto Rico		23 Cabo Rojo	11
	72 Puerto Rico		27 Camuy	11
	72 Puerto Rico		31 Carolina	11
	72 Puerto Rico		33 Catano	11
	72 Puerto Rico		37 Ceiba	11
	72 Puerto Rico		49 Culebra	11
	72 Puerto Rico		51 Dorado	11
	72 Puerto Rico		53 Fajardo	11
	72 Puerto Rico		55 Guanica	11
	72 Puerto Rico		57 Guayama	11
	72 Puerto Rico		59 Guayanilla	11
	72 Puerto Rico		61 Guaynabo	11
	72 Puerto Rico		65 Hatillo	11
	72 Puerto Rico		69 Humacao	11
	72 Puerto Rico		71 Isabela	11
	72 Puerto Rico		75 Juana Diaz	11
	72 Puerto Rico		79 Lajas	11
	72 Puerto Rico		87 Loiza	11
	72 Puerto Rico		89 Luquillo	11
	72 Puerto Rico		91 Manati	11
	72 Puerto Rico		95 Maunabo	11
	72 Puerto Rico		97 Mayaguez	11
	72 Puerto Rico		103 Naguabo	11
	72 Puerto Rico		109 Patillas	11
	72 Puerto Rico		111 Penuelas	11

State Code	State Name	County Code	County Name	Subregion
72	Puerto Rico	113	Ponce	11
72	Puerto Rico	115	Quebradillas	11
72	Puerto Rico	117	Rincon	11
72	Puerto Rico	119	Rio Grande	11
72	Puerto Rico	123	Salinas	11
72	Puerto Rico	127	San Juan	11
72	Puerto Rico	133	Santa Isabel	11
72	Puerto Rico	137	Toa Baja	11
72	Puerto Rico	143	Vega Alta	11
72	Puerto Rico	145	Vega Baja	11
72	Puerto Rico	147	Vieques	11
72	Puerto Rico	151	Yabucoa	11
72	Puerto Rico	153	Yauco	11
78	U.S. Virgin Islands	10	St. Croix	11
78	U.S. Virgin Islands	20	St. John	11
78	U.S. Virgin Islands	30	St. Thomas	11
West Pacific				
15	Hawaii	1	Hawaii	8
15	Hawaii	3	Honolulu (Oahu)	8
15	Hawaii	5	Kalawao	8
15	Hawaii	7	Kauai	8
15	Hawaii	9	Maui	8
15	Hawaii	11	Molokai	8
15	Hawaii	13	Lanai	8

Appendix D

Privacy Act Statement

PRIVACY ACT STATEMENT

Information collected in the Marine Recreational Fishery Statistics Survey is authorized under the Fish and Wildlife Act of 1956, the Migratory Marine Fish Act of 1959, the Fishery Conservation and Management Act of 1976 and the Sustainable Fisheries Act of 1996. This information will be used in assessing the influence of fishing on fish stocks and in determining future recreational fishing needs.

All information collected will be combined with information provided by other recreational anglers and used only for statistical purposes. Any information which would permit identification of the individual will be held in strictest confidence and will be used only by persons engaged in and for the purpose of the survey.

Participation in this survey is voluntary and there are no penalties for refusing to answer any question. However, your cooperation in obtaining this much needed information is extremely important in order to insure the completeness and accuracy of the statistical results.

Appendix E

CHBTS Reminder Postcard/Letter

March 30, 2001

Capt. Name
Capt. Address
BILOXI, MS 39530

Dear Capt. X,

We have drawn a 10% random sample of charter and guide boats in Mississippi and you have been selected to report your saltwater fishing activity for the week of **04/09/2001**. You will be requested to report information about the trips you made only on the vessel listed below. Beginning on Monday, 04/16/2001, we will try to contact you to obtain the information. The enclosed form for recording your fishing activity is provided for your convenience, but it is not required to be completed. Please note that the **LAUNCH TYPE** variable has been changed to **FISHING SITE**. You will be asked to name the site from where your trip originated. This information will allow fishery managers to better classify where fishing trips are originating. If you have any questions concerning this form or this survey please call me at (228) 374-5000. Thank you for your cooperation.

Sincerely,

Kerwin Cuevas
Department of Marine Resources

Vessel Registration: 268023
Vessel Name: QUICKSILVER

Field Sampler Sampler's Telephone #: 228 374-5000

CHARTERBOAT WEEKLY PHONE SURVEY FORM

VESSEL NAME - CASTLE I
VESSEL NUMBER - 284797

FOR WEEK - Monday, 09/18/2000, through Sunday, 09/24/2000

TRIP	DATE YY/MM/DD	TRIP TYPE CHARTER HEADBOAT OTHER	NUMBER OF ANGLERS	ORIGIN OF TRIP		FISHING SITE	FISHING METHOD TROLL BOTTOM FISH CAST DRIFT FLY FISH	PRIMARY AREA FISHED GULF, OCEAN SOUND RIVER BAY	DISTANCE FROM SHORE < 3 MILES > 3 MILES	TIME TRIP STARTED	TIME TRIP ENDED	HOURS FISHED
				STATE	COUNTY							
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

INSTRUCTIONS FOR FILLING IN FORM

We are providing this form so that you can see what fishing effort information we will ask you to supply in a telephone interview. You may choose to use this form to document your fishing activity for the vessel and week designated on this form. Fisheries personnel will contact you by phone sometime during the week after the fishing activity occurred. Please help us to accurately represent your industry by cooperating with the telephone interview.

This form should be filled out for the week of **Monday, 09/18/2000 through Sunday 09/24/2000,** only.

Trip - The sequential number of the trip taken that week beginning on Monday.

Date - The date of the trip (month/day/year).

Trip Type - The type of trip taken as defined below.

- **Charter Trip** - A fishing trip with paying passengers who hired the vessel as a group.
- **Headboat Trip -** A fishing trip with paying passengers who paid to fish as individuals.
- **Other Trip -** A trip with no paying passengers or a non-fishing trip.

Number of Anglers - The number of people fishing on the trip (excluding captain and crew for charter trips).

State of Departure - The state from which the fishing trip originated.

County of Departure - The county from which the fishing trip originated.

Fishing Site - The name of the site from which the trip originated.

Fishing Method - The main or primary method of fishing on this trip as defined below. Up to two methods can be entered, with the primary method entered first.

- **Trolling** - Lines fished by pulling through the water while under power.
- **Bottom** - Lines fished straight down off the side of the boat while typically not under power.
- **Casting** - Lines fished by using a casting rod and reel.
- **Drifting** - Lines fished while boat is passively (not under power) drifting.
- **Fly Fishing** - Lines fished by using a fly rod and reel.

Primary Area Fished - The primary area of fishing on this trip as defined below.

- **Gulf, Open Bay** - Fishing in offshore waters or **open** Bay.
- **Sound** - Fishing in semi-enclosed or enclosed embayment named "Sound".
- **River** - Saltwater fishing in rivers.
- **Bay** - Fishing in an **enclosed** bay (e.g. Mobile Bay).

Distance From Shore - Only to be used if fishing occurred in the Gulf or Open Bay. The distance from shore where fishing primarily took place as defined below.

- **< 3 miles** - Fishing from the shore out to 3 miles.
- **> 3 miles** - Fishing greater than 3 miles out from the shore.

Time Trip Started - Time of day vessel departed the dock or ramp for the fishing trip.

Time Trip Ended - Time of day vessel arrived back at the dock or ramp.

Hours Fished - The amount of time spent actively fishing with gear in the water to the nearest half-hour.

Appendix F

RDD Telephone Questionnaire

RECREATIONAL FISHING QUESTIONNAIRE
Revised Questionnaire for 2001
version dated: March 15, 2001

---------- Household Introduction----------

Intro *{If state of residence ne HI}*
Hello, I'm calling for a survey about fishing being conducted for the National Marine Fisheries Service of the U.S. Department of Commerce. This call may be monitored for quality control and your telephone number has been selected at random. [As needed: May I please speak with an adult in the household?]

{If state of residence=HI}
Hello, I'm calling on behalf of a survey being conducted for the State of Hawaii's Division of Aquatic Resources and the U.S. National Marine Fisheries Service. This call may be monitored for quality control and your telephone number has been selected at random. No information will be provided to any kind of tele-marketing firm. [As needed: May I please speak with an adult in the household?]

{All}
The survey is being conducted in accordance with the Privacy Act of 1974, therefore you are not obligated to answer any question if you find it to be an invasion of your privacy.

----------End Household Introduction----------

----------Household Quality Control Screeners ----------

Q1-Q4 are for sample quality control - Ask quality control statements of initial household respondent for all states.

If no instructions are specified next to a response, continue to the next question.

Q1 How many people in this household go fishing?
1 {total response, range 1-20}
0 none
99 Refused {go to termination screen, code as resistant}

[INTERVIEWER: If response is greater than 15, please prompt to confirm total number of people fishing in household.]

Q2 To help me assign your information to the correct location, is the telephone

number I've reached you at located in {restore name from sample} county / parish / island / municipality?

1 Yes
2 No {go to Q7 - GENDER}
8 DK {go to termination screen and code as resistant}
9 R {go to termination screen and code as resistant}

[If State is not Louisiana, Puerto Rico, U.S. Virgin Islands or Hawaii, use "county"
If State is Louisiana, use parish.
If State is Puerto Rico, ask the municipality - it can not be determined ahead of time. "In what municipality do you live?"
If State is U.S. Virgin Islands or Hawaii, ask the island - it can not be determined ahead of time, except that Hawaii telephone prefixes have some relationships to groups of islands . "On what island do you live?"]

Q3 Is this your permanent residence?

1 Yes
2 No {go to Q7 - GENDER}
99 R {go to terminate screen and code as resistant}

[Interviewer prompt if needed: "Where you live at least 6 months out of the year."]

Q4 How many people in total, including yourself, live in your household? Please include those people who fish and those who don't fish. [Maximum = 20]

1 {record response}
99 R/DK {go to terminate screen and code as resistant}

[INTERVIEWER: If response is greater than 15, please prompt to confirm total number of people living in household.]

[Interviewer: If response is less than answer to Q1, this indicates that there are fewer people *living* in the household than there are *fishers* in the household. Please clarify with the respondent as needed.]

[If response to Q1 is zero, then go to Q7 - GENDER.
Otherwise continue.]

----------End of Household Quality Control Screeners ----------

----------Eligible Household Screener----------

We want to gather information from people who have been recreational saltwater fishing for finfish, not shellfish. Recreational fishing means the primary purpose of

the fishing is for fun or relaxation, as opposed to providing income from the sale of fish. We're not interested in trips where your main purpose was to catch fish which you would sell to make money. Saltwater fishing includes fishing in oceans, sounds, or bays, or in brackish portions of rivers. We are not interested in any fishing in freshwater lakes, streams, ponds or rivers.

Q5 How many people in your household, including children and adults, have been recreational saltwater fishing in the last 12 months anywhere in the US (including Hawaii and the mainland) or in a US territory?

1-20	{record response}	
0	ZERO	{go to GENDER }
98	DK	{go to terminate screen and code as resistant}
99	R	{go to terminate screen and code as resistant}

[INTERVIEWER: If Response is greater than 10, please prompt to confirm total number of people that are 12 month fishers.]
[Total fishermen in household - Q1 - must be greater than or equal to 12 Month Fishermen]
[Wording varies slightly if the answer to Q5 is 1. "Has the person who fishes been recreational saltwater fishing in the last 12 months in the US or a US territory?"]

Q6 Thinking just about the past 2 months, how many of the people living in your household, including children and adults, have been recreational saltwater fishing in the last 2 months in the US or a US territory? [Maximum = 20]

1-20	{record response}	
0	NONE	{record response and go to Q7 - GENDER}
98	DK	{ask for someone else - read intro & continue or terminate with scheduled call back}
99	R	{ask for someone else - read intro & continue or terminate with scheduled call back}

[If response is greater than 10, prompt to confirm the number of people in the household that have been recreational saltwater fishing in the past 2 months.]
[12 Month Fishermen must be greater than or equal to 2 Month fishermen]

[Wording varies slightly if the answer to Q5 is 1. "Thinking just about the past 2 months, has the person who fishes been recreational saltwater fishing in the last 2 months in the US or a US territory?"]

{LABEL GENDER}

Q7 INTERVIEWER: Record gender of respondent (based on voice - not asked)

1	male

2 female

[If response to Q1 is zero (no fishermen in household) or response to Q6 is zero (no 2 month fishermen), then go to terminate screen.]

[If Q6>0 then continue.]

Q8a I'd like to ask each person who has been recreational saltwater fishing in the last 2 months a few questions about their fishing trip(s). To simplify the interview, would you tell me the first names of the people in your household who have been saltwater fishing in the past 2 months?

1 {record names - up to 20}
9 DK/R {suspend with "resistant" message}

[If number of 2-month recreational saltwater fishermen=1, use: " I'd like to ask the person who has been recreational saltwater fishing in the last 2 months a few questions about his/her fishing trip(s). To simplify the interview, would you tell me the first name of the person in your household who has been saltwater fishing in the past 2 months?]

[NOTE TO INTERVIEWER: If respondent won't give you names, ask for identifiers such as mother, father, oldest child , second oldest child , etc]

Q8b Are you [one of the people {the person, *if one angler*}] in your household who has been saltwater fishing in the last 2 months?

1 yes
2 no {transfer to someone else}
3 no - no one is available {suspend schedule callback}
9 R {suspend with "resistant" message}

----------End of household eligibility screening ----------

----------Angler screening questionnaire----------

The angler screener should be repeated for each new respondent in the household in order to define their eligibility for the survey.

Hello, I'm conducting a survey on recreational saltwater fishing for the National Marine Fisheries Service. Recreational fishing means the primary purpose of the fishing is for fun or relaxation, as opposed to providing income from the sale of fish. We're not interested in trips where your main purpose was to catch fish which you would sell to make money. By saltwater fishing, I mean fishing in oceans, sounds, or bays, or in brackish portions of rivers. For the purpose of this survey, it includes

only fishing for finfish, not shellfish.

This survey is being conducted in accordance with the Privacy Act of 1974, therefore you are not obligated to answer any question if you find it to be an intrusion of your privacy.

I understand that you've been saltwater fishing in the past 2 months. I'd like to ask you a few questions about your most recent recreational saltwater fishing trips.

Q1 {Ask of first eligible respondent if more than one eligible fishermen in the household} First, did all of the fisherman in your household take all of their fishing trips together over the last 2 months?

1 yes {program should repeat trip information for all eligible respondents}
2 no {interviewer should attempt to interview all eligible respondents}
8 DK {interviewer should attempt to interview all eligible respondents}
9 R {interviewer should attempt to interview all eligible respondents}

If state of residence ne Hawaii go to Trip Profiling Questionnaire.
If state of residence eq Hawaii, continue with fisherman categorization questions.

---------- Fisherman Categorization Questions - Hawaii only ----------

H1 Which of the following three categories best represents your fishing activities?

1. You never sell any of your catch
2. You sometimes sell fish to help cover fishing expenses
3. You sell fish for profit to pay your living expenses

H2 [If H1=3] Do you consider yourself a full-time commercial fisherman?

1 Yes
2 No

{Fishermen categorization codes}

If H1=1, then category=1 (pure recreational)
If H1=2, then category=2 (recreational expense)
If H1=3 and H2=no, then category=3 (part-time commercial)
If H1=3 and H2=yes, then category=4 (full-time commercial)}

H3 [If category=3 or 4] How many of the {total trips} trips that you mentioned were commercial fishing trips? [As needed: For this survey, any trip where you sold some of the catch for profit beyond expenses is considered to be a commercial fishing trip.]

00 None

01 {record number of trips}
DK
R

H4 [If H3 < total trips] Were the other {total trips-H3} trips purely recreational trips (where you sold none of the catch)?
1 Yes
2 No
8 DK
9 R

H5 [If H4=2] How many were purely recreational?
00 None
01 {record number of trips}
DK
R

[Interviewer: If the respondent's total trips don't add up, please probe for the correct information.]
You entered:
- Total in-state trips
- Total out-of-state trips

- Commercial trips
- Recreational trips}

[If total trips (all commercial), fisherman interview ends as non-2 month fisher.]
[If respondent has recreational trips: We'd like to ask you about just those recreational fishing trips. Continue with trip profiling.]

---------- End of Fisherman Categorization Questions - Hawaii only ----------

---------- End of angler screening questionnaire ----------

---------- Trip profiling questionnaire ----------

{***First, determine the number of trips***}
Q1 On how many days in the past two months, between {restore TODAY- days in wave} AND {restore TODAY-1}, did you (s/he) go recreational saltwater fishing in {restore state} or in a boat launched from {restore state}?
1-62 {record response}
0 NONE
98 DK

99 R

[If response is greater than 5 trips, prompt to confirm.]
[for answers of 98 or 99: Try to get an estimate before using this response category]

Q2 On how many days in the past two months, between {restore TODAY- days in wave} and {restore TODAY-1}, did you (s/he) go saltwater fishing in any coastal state or territory of the US other than {restore state} or from a boat launched from another coastal state or territory of the US?

1-62 {record response}
0 NONE
98 DK
99 R

[If response is greater than 5, prompt to confirm.]
[for answers of 98 or 99: Try to get an estimate before using this response category]
[if answers to both Q1 and Q2 are 0, then this is not an eligible fisherman]
[if answers to both Q1 and Q2 are 98 and/or 99, then suspend with resistant message for callback]

*{**Begin the loop of questions to be asked of each trip. Note**: Often as the interviewer and respondent are profiling the trips, at some point the respondent will say that "all of the trips were the same". E.g. an angler who fishes off of his dock twenty days. The interviewer should be able to exit the loop and, after confirmation, code remaining trips as "all the same."}*

---------- Trip loop questionnaire ----------

The following questions are asked for each of the days indicated in Q1 and Q2.

Q3 [*Ask for 1st trip*] When did you (s/he) last go saltwater fishing? I have a calendar with me in case we need to look up some of the specific dates.

1 {record Month & Day}
77 Stop recording trip details {Go to Q3a}
99 R {go to end triploop}

[*Ask if not 1st trip*] When was the next most recent saltwater fishing trip?

1 {record Month & Day}
66 no more trips during the time period {go to end triploop}
77 Stop recording trip details {Go to Q3a}
99 R {go to end triploop}

Q3a [If respondent can't remember the date in Q3, ask] Was that a weekday or weekend?

2 If weekday, enter WD {record WD}
3 If weekend, enter WE {record WE}
77 Stop recording trip details {go to end triploop}
98 If DK, enter DK {record DK} {go to end triploop}
99 R {go to end triploop}

Q4 On that day, did you (he/she) fish from a boat?

1 yes
2 no {go to Q6 - SHORE}
7 Stop recording trip details {go to end triploop}
8 DK {go to end triploop}
9 Refused {go to end triploop}

Q5 [Ask if Q4 =1] Was that from a ... [read]

1 Party or head boat -- CATEGORY B
2 Charter boat -- CATEGORY B
3 Private boat -- CATEGORY C
4 Rental boat -- CATEGORY C
5 Boat - don't know what type -- CATEGORY C
[Interviewer: Using mode definitions, probe before choosing this answer]
7 Stop recording trip details {go to end triploop}
8 DK {go to end triploop}
9 Refused {go to end triploop}

[Interviewer: A respondent may choose up to two responses for the day but the two responses CAN NOT be from the same category - i.e.
Allow the following boat mode combinations: (1&3) OR (2&3) OR (1&4) OR (2&4) OR (1&5) OR (2&5)]

Q5a [If party/head boat, ask:] Are you the captain or mate of a party or head boat?
[If charter boat, ask:] Are you the captain or member of the crew of a charter boat?

1 yes {record answer and read instructions}
2 no (record answer and continue}
7 stop recording details {go to end triploop}
8 DK {go to end triploop}
9 R {go to end triploop}

If Q5a=1then say: For this survey, we are only interested in those trips you might have taken for your own enjoyment where you did NOT have paying customers. From now on, please only tell me about trips where you did NOT have paying customers.

{LABEL SHORE}

Q6 [If state of residence ne HI] On that day, did you (he/she) {also} fish from the shore? [also means piers, docks, jetties, etc.]
[If state of residence=HI] On that day, did you (he/she) {also} fish from the shoreline or reef?

{**Note**: If the angler responded in Q4 that "yes" he did fish from a boat, then Q6 should include the word "also". If an angler fishes from a boat and from the shore on the same day, that is considered to be two trips, and each should be profiled in the trip loop.}

1	yes	
2	no	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	Refused	{go to end triploop}

Q7 [Ask if Q6=1] Was that from ... [read]

1	The beach or bank	
2	A pier	
3	A dock	
4	A jetty or breakwater	
5	A bridge or causeway	
6	Other manmade structure	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	Refused	{go to end triploop}

[If respondent fished from more than one of the following on the same day, ask for the last place he/she fished from that day]

---------- Individual Trip Details----------

{ The following questions are asked for each trip/mode combination within a day. Individual questions depend upon the mode of the trip.}

Q8a [For boat trips, use:] Did the boat return to {restore state or territory}?
[For shore trips, use:] Were you fishing in {restore state or territory}?

1	yes	{record response and go to Q9}
2	no	{record response and go to Q8b}
7	Stop recording trip details	{go to end triploop}
8	DK	{record response and go to Q8b}
9	R	{record response and go to Q8b}

Q8b [For boat trips, use:] To what coastal state or US territory did the boat return?
[For shore trips, use:] In what state or U.S. territory were you fishing?
[Prompt as needed.]

1 Alabama
2 Alaska
6 California
9 Connecticut
10 Delaware
12 Florida
13 Georgia
15 Hawaii
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
28 Mississippi
33 New Hampshire
34 New Jersey
36 New York
37 North Carolina
41 Oregon
43 Puerto Rico
44 Rhode Island
45 South Carolina
48 Texas
51 Virginia
52 U.S. Virgin Islands
53 Washington
55 Other - only allowable answers here are any of the Western Pacific territories and protectorates (Guam, American Samoa, American Marianas)
77 Stop recording trip details {go to end triploop}
98 DK/R {go to end triploop}

Q9 [For boat trips, use:] To what coastal county/parish/island/municipality did the boat return?
[If there seems to be confusion, this probe may be used: What county were you in when the boat landed and you stepped off of the boat?"]
[For shore trips, use:] In what coastal county/parish/island/municipality were you fishing?

1 {record return county/parish/island/municipality/}
{record response and continue}
77777 Stop recording trip details {go to end triploop}
99998 DK {go to Q9a}

99999 R {go to Q9a}

[Coastal county is used for all areas except: Louisiana where parish is used, Hawaii and Virgin Islands where island is used, and Puerto Rico where municipality is used.]

A list of allowable coastal counties that actually have salt water fishing sites will be provided. If the county response is not included on the list, the trip would not be considered eligible.

{Q9a is only asked, if the respondent did not know the county of the trip - probe for a city or town}

Q9a Do you know the name of the city or town that you (he/she) returned to?

1	{record response}	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	R	{go to end triploop}

Q10a [For boat trips only:] Does the public have access to the place from which the boat left, or is it private access only?

1	public has access	
2	private access only (the public does not have access)	
3	Military [do not read]	
4	private property unlocked marina [do not read]	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	R	{go to end triploop}

Q10b [For shore trips only:] Does the public have access to the place where you were fishing, or is it private access only?

1	public has access	
2	private access only (the public does not have access)	
3	Military [do not read]	
4	private property unlocked marina [do not read]	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	R	{go to end triploop}

Q11 [For boat modes use:] To the closest hour, at what time did the boat return?
[For shore modes use:] To the closest hour, what time did you stop fishing?

1	1 am
2	2 am

3	3 am	
4	4 am	
5	5 am	
6	6 am	
7	7 am	
8	8 am	
9	9 am	
10	10 am	
11	11 am	
12	12 pm (NOON)	
13	1 pm	
14	2 pm	
15	3 pm	
16	4 pm	
17	5 pm	
18	6 pm	
19	7 pm	
20	8 pm	
21	9 pm	
22	10 pm	
23	11 pm	
24	12 am (MIDNIGHT)	
25	depends on tide	
77	Stop recording trip details	{go to end triploop}
98	DK	{go to end triploop}
99	R	{go to end triploop}

[If respondent says “Depends on tide”, choose that response category.]
[If respondent says it was overnight trip, enter the time trip ended, whether or not it was the same day they left]

Q12 Was most of your fishing effort that day in the ocean, a sound, a river, a bay or an inlet?

1	ocean/ gulf	
2	sound	
3	river	
4	bay	
5	inlet	
6	other {specify}	
7	Stop recording trip details	{goto end triploop}
8	DK	{goto end triploop}
9	R	{goto end triploop}

Q13 [{Ask if state of return is not CA or WA or OR and Q12=river] Was that in the lower part of the river which is brackish?

1	yes	{if state of trip not HI then go to end triploop} {if state of trip is HI then go to HI trip details}
2	no	{trip ineligible - go to triploop}
3	both	{go to end triploop}
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	R	{go to end triploop}

{**Note***: All states have been asked to provide similar lists of saltwater cut-off points for their rivers. These will be provided and incorporated into this question as it is for CA, WA, and OR. If a list is not provided by a state, then the general question should be asked*.}

[Ask if statereturn_a=6 (CA) and Q12=river] And what river was that? Were you (was s/he) upstream or downstream of the cutoff point, which is {restore cutoff}?

1	the Albion river	{cutoff=at the upper dock}
2	the Big river	{cutoff= the mid-2nd turn upstream}
3	the Eel river	{cutoff= at the upper end cockrobin island}
4	the Klamath river	{cutoff= at the 101 bridge}
5	the Mad river	{cutoff=1/2-way between the river mouth and 101 bridge}
6	the Napa river	{cutoff= south of hwy 37 bridge}
7	the Navaro river	{cutoff= at the hwy 1 bridge}
8	the Noyo river	{cutoff= at the end of dolphin cove marina}
9	the Redwood creek	{cutoff= 1/4-way between river mouth and 101 bridge}
10	the Sacramento river	{cutoff= the Carquinez bridge at crockett}
11	the San Gabriel river	{cutoff= Pacific coast highway bridge / Highway 1}
12	the Smith river	{cutoff=1/2-way between river mouth and 101 bridge}
13	the Ten Mile river	{cutoff= the old dock which is 100 yards upstream from hwy 1 bridge}
14	or another river	{go to boatcloop}
77	Stop recording trip details	{record stopcount=previous trip date} {goto end triploop}
98	DK	{go to end triploop}
99	R	{go to end triploop}

[Above the cutoff is freshwater and thus the trip is ineligible, go back to start of next trip. Below the cutoff is saltwater, therefore skip to Q15]

[Ask if river=1 and statereturn_a=OR] And what river was that? Were you (was s/he) upstream or downstream of the cutoff point, which is {restore cutoff}?

1	Alsea river	{cutoff=Mouth of Eckman Slough}

2	Beaver creek	{go to boatcloop}
3	Big Nestucca River	{cutoff=Pacific City Bridge}
4	Chetco river	{cutoff=Hwy 101 bridge}
5	Columbia river	{cutoff=Astoria-Megler Bridge (Hwy 101}
6	Coos Bay	{set ORnocutoff=1}
7	Coos Esuary	{set ORnocutoff=1}
8	Coos river	{go to boatcloop}
9	Coquilla river	{cutoff=Hwy 101 Bridge}
10	D river	{go to boatcloop}
11	Elk river	{go to boatcloop}
12	Isthmus Slough	{set ORnocutoff=1}
13	Kilchis river	{go to boatcloop}
14	Little Nestucca River	{cutoff=Hwy 101 Bridge}
15	Miami river	{go to boatcloop}
16	Neconicum river	{cutoff=12th Avenue bridge in town of Seaside}
17	Nehalem river	{cutoff=Hwy 101 Bridge}
18	Netats river/Estuary	{set ORnocutoff=1}
19	Pistol river	{go to boatcloop}
20	Rogue river	{cutoff=Hwy 101 bridge}
21	Salmon Habor	{set ORnocutoff=1}
22	Salmon river	{cutoff=Hwy 101 bridge}
23	Sand Lake	{set ORnocutoff=1}
24	Siletz river	{cutoff=Hwy 101 bridge}
25	Siuslau river	{cutoff=town of Florence}
26	Sixes river	{go to boatcloop}
27	South Slough	{set ORnocutoff=1}
28	Tillamook Estuary/Bay	{set ORnocutoff=1}
29	Tillamook river	{go to boatcloop}
30	Trask river	{go to boatcloop}
31	Umpqua river	{cutoff=town of Gardiner}
32	Wilson river	{go to boatcloop}
33	Winchester Bay	{set ORnocutoff=1}
34	Winchuck river	{go to boatcloop}
35	Yachats river	{go to boatcloop}
36	Yaquina Bay	{cutoff=Butler Bridge}
37	other	{go to end triploop}
77	Stop recording trip details	{go to end triploop}
98	DK	{go to end triploop}
99	R	{go to end triploop}

[Above the cutoff is freshwater and thus the trip is ineligible, go back to start of next trip. Below the cutoff is saltwater, therefore skip to Q15]

[Ask if river=1 and statereturn_a = WA] And what river was that? Were you (was s/he) upstream or downstream of the cutoff point, which is {restore cutoff}?

1	the Chehalis river	{cutoff=Hwy 7 Bridge at Montesano}
2	the Columbia river	{cutoff= Astoria-Megler bridge (Hwy 101)}
3	the Dosewallips river	{cutoff= Dosewallips State Park, where river leaves camping area}
4	the Duwamish river	{cutoff= Spokane Street bridge is west seattle}
5	the Elk river	{cutoff=Hwy 105 Bridge}
6	the Naselle river	{cutoff= Hwy 101 bridge}
7	the Nemah river	{cutoff = Hwy 101 bridge}
8	the Nisqually river	{cutoff= ½ mile below I-5 bridge}
9	the Nooksack river	{cutoff= Lummi Shore Drive Bridge}
10	the Palix creek	{cutoff= Hwy 101 bridge}
11	the Puyallup river	{cutoff= 11th street bridge in Tacoma (Hwy 509)}
12	the Skagit river	{cutoff= junction of North and South forks}
13	the Snohomish river	{cutoff=Old Hwy 99 Bridge}
14	the Stillaguamish river	{cutoff= Hwy 529 bridge}
15	the Willapa river	{cutoff=South bend}
16	or another river	{go to end triploop}
77	Stop recording trip details	{goto end triploop}
98	DK	{go to end triploop}
99	R	{go to end triploop}

[Above the cutoff is freshwater and thus the trip is ineligible, go back to start of next trip. Below the cutoff is saltwater, therefore continue to Q14]

Q14 [Ask if statereturn_a=WA] What punch card area were you (he/she) fishing in?
00 to 13

77	Stop recording trip details	{go to end triploop}
98	DK/R	{go to end triploop}

Q15 [Ask if statereturn_a=CA, OR or WA] Were you (was s/he) targeting salmon?

1	yes	
2	no	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	R	{go to end triploop}

Q16 [Ask if statereturn_a=CA and countyreturn_a=San Diego] OR [Ask if statereturn_a=WA and countyreturn_a={Clallam or Watcom or Skagit or Snohomish}] OR [Ask if statereturn_a=ME and countyreturn_a=Washington] Did you (s/he) fish in foreign waters **AND RETURN TO A US PORT?**

1	yes

2	no	
7	Stop recording trip details	{go to end triploop}
8	DK	{go to end triploop}
9	R	{go to end triploop}

{ Return to beginning of trip loop to profile next trip, if trips remain. Go to the end of the trip loop if no trips remain.}

---------- Trip Questions - Hawaii only ----------

QH1. Were you targeting any particular kinds of fish on this trip?

1 A'awa (ah-ah-vah)" or Table Boss
2 A’u (pronounced ow)
3 Ahi (ah-hee)
4 Aholehole (ay-ho-lay-ho-lay)
5 Aku (ah-koo)
6 Akule (ah-koo-lee)
7 Albacore (albacore tuna)
8 Amberjack
9 Barracuda
10 Bigeye (bigeye tuna)
11 Billfish
12 Blue marlin
13 Bonefish
14 Convict tang
15 deep water bottomfish
16 Ehu (ay-hoo)
17 Gindai (gin-dye)
18 Goat fish
19 Hahalalu (ha-ha-la-loo)
20 Hapu’upu’u (ha-poo-oo-poo-oo, or ha-pa-poo for short)
21 Hinalea (he-na-lay-ah)
22 Ina (ee-na)
23 Kaku (ka-koo)
24 Kawakawa (kava-kava)
25 Kumu (koo-moo)
26 Mahi (mahimahi)
27 Malu (ma-loo)
28 Manini (ma-nee-nee)
29 Marlin
30 Menpachi

31 Moana (mo-ah-na)
32 Moi
33 Moonfish
34 Mu (moo or mo-ee)
35 Nabeta (na-beh-ta)
36 Nehu (nay-hoo)
37 Oama (oh-ah-mah)
38 Oio (oh-ee-oh)
39 Omilu (oh-me-loo)
40 Onaga or naga (oh-na-gah or na-gah)
41 Ono (oh-no)
42 Opah (oh-pah)
43 Opakapaka (oh-pa-ka-pa-ka or paka)
44 Opelu (oh-pell-oo)
45 Opihi (oh-pee-hee)
46 Palani (pah-lah-nee)
47 Papio (pa-pee-oh or pah-pee-oh)
48 Parrot fish
49 reef fish
50 Sailfish
51 Sea bass
52 Skipjack (skipjack tuna)
53 Spearfish (short nosed spearfish)
54 Striped marlin
55 Taapae (Ta-ah-pay or tah-ah-pay)
56 Tako (ta-co)
57 Tombo
58 Tunas
59 Uhu
60 Ulua (oo-loo-ah)
61 Wahoo (wah-who)
62 Weke (ve-kee)
63 Yellowfin (yellowfin tuna)
64 No particular target
65 Other [record response}
77 Stop recording trip details {go to end triploop}
98 DK
99 R

QH What kind of fishing did you do on this trip? Was it trolling, hand-lining, bottom-fishing, casting with a rod and reel or pole and line, netting, scuba or spear-fishing or something else?
01 Trolling

02 Hand-lining
03 Bottom-fishing
04 Casting [Rod and reel or pole and line]
05 Netting
06 Spear-fishing [scuba or free-diving]
07 Other {record response}
77 Stop recording trip details {go to end triploop}
98 DK
99 R

QH *{if gear_1a=2}*
And what method of hand-lining was that? Tuna hand-lining, deep water bottom-fishing, or shallow water bottom-fishing or something else?
1 Tuna hand-lining [includes palu ahi or ika shibi]
2 Deep water bottom-fishing
3 Shallow water bottom-fishing
4 Other {record response}
7 Stop recording trip details {go to end triploop}
8 DK
9 R

{if gear_1a=3}
And what method of bottom-fishing was that? Deep water bottom-fishing, shallow water bottom-fishing, both deep and shallow or something else?
1 Deep water bottom-fishing
2 Shallow water bottom-fishing
3 Both deep and shallow
4 Other {record response}
7 Stop recording trip details {go to end triploop}
8 DK
9 R

QH Did you sell any of your catch on this particular trip?
1 Yes
2 No
7 stop recording trip details {goto end triploop}
8 DK
9 R

---------- End of Trip Questions - Hawaii only ----------

---------- End of individual trip details ----------

---------- End of trip loop questionnaire ----------

----------End of trip profiling questionnaire ----------

END TRIPLOOP: This point may be reached by 1) refusals during the screening process, 2) refusals or attempted terminations during the trip profiling, or 3) at the end of a successful interview.

For 1) interviewers should attempt to interview someone else in the household, or schedule a callback.

For 2) Interviewers should indicate ...

1 the respondent does not remember any more details about ANY trips; or
2 the respondent refuses to continue; or
3 proxy respondent does not know trip details;
4 all of the remaining trips were like the one we just talked about.
5 respondent needs to change number of trips.

The interviewer should ask: For the remaining {restore number of remaining trips not discussed} days, could you at least please tell me how many times and in what state and county or US territorial island you fished from a party/charter boat, a private/rental boat, and the shore?

For unfinished interviews, unfinished proxy interviews, and hard refusals at this point, the interviewer should attempt to schedule a call-back.

For response 4, the total number of trips remains the same and a variable noting all trips the same is recorded.

For response 5, make the necessary adjustments to the interview and complete the interview.

For 3) Okay. That concludes the questions that I have about your fishing. Thank you very much for your time and assistance.

[COMPARE LIST OF COMPLETED NAMES WITH FISHERMEN NAMES AND ASK FOR THE PEOPLE WHO HAVE NOT YET BEEN COMPLETED.]

If there are additional anglers in the household who still need to be interviewed, ask: “Now, may I please speak to: ”

[If respondent indicates that one or more of the people list are children, ask current respondent to continue with you answering the questions based on the child’s

fishing activities]

Continue with individual interview.

Appendix G

CHBTS Telephone Questionnaire

CHARTER AND HEAD BOAT FISHING QUESTIONNAIRE
Draft Questionnaire for 2002
version dated: April 11, 2001

If no instructions are specified next to a response, continue to the next question.

---------- Introduction----------

Hello, my name is {interviewer's name}. I'm calling for a survey being conducted for the National Marine Fisheries Service of the United States Department of Commerce.

Q1 Am I speaking to {selected contact name}?
1 yes
2 no

Q1a [If Q1 = no, ask]
May I please speak to {{selected contact name}?
1 yes {proceed to Q2}
2 no

Q1b [If Q1a = no, ask]
Is {selected contact name} still the correct vessel representative for the {boat name}?
1 yes {attempt to schedule a callback}
2 no

Q1b [If Q1a = no, ask]
Are you the correct vessel representative to provide details for the {boat name}?
1 yes {proceed to Q2}
2 no

Q1c [If Q1b = no, ask]
Do I need to contact someone else to obtain that information?
1 yes {try to obtain contact information or get lead}
2 no

Q1d [If Q1c = no, ask]
Is the {boat name} still being operated by someone else?
1 yes {try to obtain contact information or get lead}
2 no {probe for information on why and how long vessel will be inactive - go to QT16}

Q2 Are you still the captain, owner or designated representative of the {boat name}?

1 yes
2 no {go to Q1d}

Q3 Can you give me the details of the activity of {boat name} during the last week, including financial information including revenues and costs for these trips {Monday - date - through Sunday - date}?
1 yes
2 no {got to Q1c}

We're surveying owners and operators of charter and head boats to collect data needed to estimate total marine recreational fishing trips by individual anglers. The {boat name} has been selected at random form a directory of charter and head boats to be included in this week's survey of trips.

I would like to ask you a few questions about trips made last week by the {boat name}. This data will remain confidential. This survey is being conducted in accordance with the Privacy Act of 1974, therefore you are not obligated to answer any question if you find it to be an invasion of your privacy.

This call may be monitored or recorded for quality control. These quality control measures let us ensure your data are recorded accurately and helps us find ways to improve the survey.

Q4 During the last week {Monday, date, through Sunday, date} how many saltwater fishing trips targeting finfish did the {boat name} take with paying passengers?
0-21 record response
98 don't know {go to termination screen, code as resistant}
99 refused {go to termination screen, code as resistant}

Q5 How many of these trips consisted of more than 1 day of fishing?
0-1 record response
98 don't know {go to termination screen, code as resistant}
99 refused {go to termination screen, code as resistant}

----------Trip Profiling----------

After the total number of trips are determined the CATI program loops through each day of

the week to see if a trip or trips were made. Interviewers must have a calendar available to help respondents with dates, particularly with weekend dates.

Let's begin with last Sunday {date} and we'll work our way back to Monday {date}. I have a calendar with me if necessary.

QT1 Did your trip take any saltwater fishing trips with paying passengers that ended on Sunday {date}?
- 1 yes
- 2 no
- 8 don't know
- 9 refused

QT2 How many saltwater fishing trips did {boat name} take with paying passengers that ended on Sunday {date}?
- 0-3 record response
- 8 don't know
- 9 refused

Now let's talk about the first trip the {boat name} took with paying passengers that ended on Sunday {date}.

QT3 Did passengers pay as a group to charter the boat or did passengers pay on a per-head basis for fishing space on the boat?
- 1 passengers chartered boat as a group (charter boat mode)
- 2 passengers paid on a per-head basis for fishing space (head boat mode)
- 8 don't know
- 9 refused

QT4 Excluding captain and crew, how many people went to fish on this trip?
- 1-150 record response
- 998 don't know
- 999 refused

QT5 "Did all of the {number for QT4} people fish on the trip?"
- 1 yes
- 2 no
- 8 don't know
- 9 refused

QT5a [If QT5 = no]
How many of those {QT4 people} did not fish on the trip?
- 1-150 record response

998 don't know
999 refused

QT6 Was this trip taken from a marina, dock or launch ramp in the {boat's home state}?
1 yes
2 no {probe for state}
8 don't know
9 refused

QT7 From what county was the trip taken?

QT8 Was this trip taken from a marina, dock or launch ramp to which the public normally has access?
1 yes
2 no
8 don't know
9 refused

QT9 What fishing method or methods (trolling, bottom-fishing, casting or drifting) were used on this trip?
1 trolling
2 bottom-fishing
3 casting
4 fly-fishing
5 other
6 drifting
8 don't know
9 refuse

QT10 What was the primary target species for that trip?
Record response {list will be provided}

97 anything/no particular species
04 albacore
05 aj/amberjack
06 barracuda (great)
07 BASS
08 BILLFISH
09 black drum
76 black grouper
10 BLACKFISH
11 blacktip shark
12 blue marlin
13 bluefish
14 BONITO
77 bream
15 CATFISH
16 cero (seer-o)
17 channel catfish
18 cobia
78 cod
19 crevalle jack
20 croaker (atlantic)
21 dolphin
22 DRUM
23 florida pompano
24 FLOUNDER
25 fluke
26 gafftopsail catfish
27 gag
28 gray snapper
29 greater amberjack
30 GROUPER
31 gulf flounder
32 gulf kingfish
33 hardhead catfish
34 irish pompano
35 JACK
36 king
37 king mackerel
38 KINGFISH
39 ling
40 little tunny

41 MACKEREL	46 POMPANO	52 rockfish
42 mahi mahi	47 pompano dolphin	53 sailfish (atlantic)
43 mako shark	48 red drum	54 SEATROUT
44 MARLIN	49 red grouper	55 SHARK
45 MULLET	50 redfish	56 sharpnose shark
79 Nassau grouper	51 red snapper	57 sheepshead

QT11 Was most of your fishing effort on that trip in the ocean, a river, a sound or a bay?

1 ocean
2 sound
3 river
4 bay
5 other
8 Don't Know
9 Refused

QT11a [If QT11 = river]
What river was that? Were you (was s/he) upstream or downstream of the cutoff point, which is {read cutoff}?

1 upstream {trip is freshwater and not eligible, go to next trip}
2 downstream
8 don't know
9 refused

QT11b [If QT11 = ocean]
Was most of your fishing effort less than or greater than 3 miles from shore?

1 ocean
2 sound
3 river
4 bay
5 other
8 Don't Know
9 Refused

QT12 At what time (to the nearest ½ hour) did your boat return from that trip?

0030-2400 record response in military time
9998 don't know
9999 refuse

QT13 To the nearest half-hour, how much time was spent actively fishing with gear in the water?

0.5 - 24.0 record response
99.8 don't know
99.9 refuse

QT14 Did this trip cover more than one day of fishing?

1 yes {ask: How many days of fishing occurred on this trip? Record number of fishing days. Split into individual day trips on consecutive days with equal fishing hours.}

2 no {record number of fishing days as 1 }

QT15 During the last week, did your boat make any additional trips? This would include any commercial or private fishing trips, as well as any non-fishing trips for fuel, bait or other activities?

1 yes {ask number of trips and record}

2 no

QT15a [If QT15 = yes]
On what days did each of these additional boat trips occur?

1 Sunday
2 Monday
3 Tuesday
4 Wednesday
5 Thursday
6 Friday
7 Saturday
8 Don't Know
9 Refused

QT16 Did you receive notification from us that you would be contacted for this interview?

1 yes

2 no {ask for correct mailing address and briefly explain that notification will be sent prior to any later contacts and continue.}

QT17 In case the {boat name} is selected again for this survey, at what time of day would you prefer to be called?

0030-2400 {Record preferred time as military time}

I would like to thank you for participating in our survey and please have a nice day.

Appendix H

CHBTS Economic Add-on - Annual Survey

Annual Survey Instrument for Open Party and Charter Recreational Fishing Vessels
April 16, 2001

1) Vessel Name and ID [we provide and confirm with interviewee]
_____

Characteristics of Firm

2.1) Does the owner generally operate this vessel? Y / N

2.2) Does this firm own vehicles or buildings that are used primarily for the charter business? Y / N

2.2 a) If yes, what is the total estimated current market value of these assets combined?

$ _____

1.3. Did the owner of this vessel own other charter or open party vessels in 1999? Y / N

If yes, please fill in the tables below for those 1999 costs shared by more than one vessel. If no, proceed to 2.4.

Characteristics of other Vessels

	Vessel Name	Vessel ID	Port	Length	Gross Tons
b)					
c)					
d)					
e)					

Multi-vessel costs in 1999

f) Advertising $_____

g) Professional services (legal, accounting, etc.) $_____

h) Association fees $_____

i) Telephones $_____

j) Other office expenses $_____

k) Labor for shorebased personnel $_____

l) Rent or payment for motor vehicles $_____

m) Other $_____

2.4) If only one vessel is owned, or if any of the costs listed above can be attributed only to the vessel identified at the beginning of this survey in Item 1, please fill in the following table.

Single vessel costs in 1999

a) Advertising $_____

b) Professional services (legal, accounting, etc.) $_____

c) Association fees $_____

d) Telephones $_____

e) Other office expenses $_____

f) Labor for shorebased personnel $_____

g) Rent or payment for motor vehicles $_____

h) Other $_____

2.5) In what State and County does the principal owner reside?

_____

3) Characteristics of Vessel (we provide and confirm with interviewee)

a) Length overall (ft) _____ feet

b) Gross registered tons _____ tons

c) Year built (hull) _____

d) Horsepower of main engines _____ hp

e) Type of fuel _____

f) Cruising speed (knots) _____ knots

g) Passenger capacity _____

Estimated present market value of vessel:

h) with permits $_____

i) without permits $_____

j) Cost of vessel when purchased by present owner $_____

k) Year purchased _____

Annual Information for Vessel in 1999

4.1) In what Port did the boat conduct most of its activities in 1999?

_____

4.2) Annual Expenditures

a) Haulout $ _____

b) Engine overhaul $ _____

c) All other vessel maintenance $ _____

d) Electronics maintenance $ _____

e) Moorage $ _____

f) Insurance $ _____

g) Fuel $ _____

h) Supplies $ _____

i) Fees paid to foreign or domestic governments $ _____

j) Landing taxes (if any) $ _____

k) Food and drink (for crew and passengers, if supplied by the vessel) $ _____

l) All payments to skipper and crew (wages, shares, salaries, bonuses, and benefits) $ _____

m) All commissions paid for booking trips $ _____

n) Payments for bait (including commissions where relevant) $ _____

o) Mortgage payments $ _____

Purchase of gear or equipment (include electronics, deck gear,engines, angling equipment, etc.):

p) Replacement $ _____

q) Upgrades $ _____

4.3) Annual revenue

a) Total receipts from all vessel activities in 1999 $ _____

b) % of vessel receipts from recreational angling trips, including receipts for gear rental, food, etc.) _____ %

c) % of vessel receipts from other charter activities such as whale watching, dive trips, burials at sea, etc. _____ %

d) % receipts from other sources (commercial fishing, tendering, etc.) _____ %

4.4) Other annual information

a) Number of full-time employees _____

b) Number of part-time or seasonal employees _____

c) Full-time equivalence of part-time and seasonal employees _____

Appendix I

CHBTS Economic Add-on
Trip Level Questionnaires

Telephone Survey Instrument for Recreational Fishing Charter and Head Boats Trip-Level Economic Data Collection: Version 1
April 16, 2001

ECONOMIC QUESTIONS:

If different person is identified as the appropriate contact for the vessel's economic data, then GO TO FOLLOW UP. Otherwise, proceed with following screening question.

New respondent introduction (if a type (1) contact go directly to screening question):

Hello my name is name of interviewer. I'm calling for a survey being conducted for the National Marine Fisheries Service of the U. S. Department of Commerce and the California Department of Fish & Game. Am I speaking to name of contact? **If "no", ask:** Can I please speak with name of contact? **If person sought is not available, ask for convenient time to call back to talk to that person, thank respondent, and terminate interview.**

We are surveying owners and operators of partyboats and charter boats to collect data on the costs and returns associated with charter and party boat activities so that fishery managers can better assess the economic impacts of proposed management regulations. The *name of vessel* has been selected at random from a directory of party boats and charter boats to be included in this week's survey.

I would like to ask you a few questions about trips made last week by the *name of vessel*. This data will remain confidential. This survey is being conducted in accordance with the Privacy Act of 1974, therefore you are not obligated to answer any question if you find it to be an intrusion of your privacy. **(Continue with interview.)**

SCREENING QUESTION: We mailed a letter to inform you that we would be attempting to contact you for this interview. In that letter we asked you to keep track of costs and earnings information for trips that your vessel made on a particular day **(*provide assigned day/date)***. Can you provide costs and earnings information associated with the boat's trips?

1. yes **CONTINUE**
2. no **(Ask for name and telephone number of appropriate person to provide costs and earnings information, note that other person will have to be contacted for this vessel's economic data, and then continue by attempting to contact the appropriate person.)**

Q21. Check to see if respondent has reported any trips on the day/date designated in the pre-contact letter. If so, then record "trips on assigned day" and record assigned day/date. If not, then look for first day after that day/date when at least one trip was reported. If you find such a day, record "trips on subsequent date" and record day/date of those trips. If no trips were reported for the assigned day/date or any days after that, then record "no trips for economic data", thank respondent and terminate interview.

1 = trips on assigned day **(also record assigned day)**
2 = no trips on assigned day, but trips on subsequent day **(also record appropriate subsequent day)**
3 = no trips on assigned day or subsequent days

If at least one trip reported on assigned day/date (Q21 is "1") or a subsequent day (Q21 is "2") in the week, then proceed as follows:

If only one trip was taken on the assigned or appropriate alternate day, then say: I would like to ask you some additional questions to collect costs and earnings information about your trip on (***provide appropriate day/date****).*

If more than one trip was taken on the assigned or appropriate alternate day, then say: I would like to ask you some additional questions to collect costs and earnings information about each of your trips on (***provide appropriate day/date****).*

For the first trip, say: I will start with the first trip on that day.
For each following trip, say: Now, I will ask you about the next trip on that day.

Ask questions 22-37 for each trip on the assigned or appropriate alternate day.

Q22. **If response to Q7 for this trip was "Party" then ask:** What was the average fare for one passenger on this partyboat trip?
GO TO Q24.

Q23. **If response to Q7 for this trip was "Charter" then ask:** What was the total cost of the charter?
GO TO Q24.

Q24. Is this vessel owned by the landing?
1= yes
2= no

Q25. Was a commission paid to a landing office for this trip
1= yes
2= no

Q26. **If Q25 is "yes", ask:** In dollars or as a percentage of receipts, how much was that commission? **(Record units as either "dollars" or "percentage of receipts", then record commission in designated units.)**

Q27. Were fees for booking passengers, moorage, or other services included in the commission? **(Record all that apply.)**
Q27a. Passenger booking fees included?
1 = yes
2 = no
Q27b. Moorage fees included?
1 = yes
2 = no
Q27c. Fees for other services included?
1 = yes **(Ask respondent to identify "other services" and record verbatim response)**
2 = no

Q28. Were food and drink sold to passengers by the vessel?
1. yes **GO TO Q31 (?)**
2. no

Q29. Did the crew sell food and drink to passengers?
1. yes
2. no **GO TO Q31**

Q30. How much would you estimate were the net earnings by the crew for the food and drink that they sold?

Q31. Excluding fare or charter costs what were total vessel receipts for the trip? Please include tackle sales and vessel sales of food or drink.

Q32. How much fuel was used on this trip? **(Record fuel amount in gallons)**

Q33. What price per gallon was paid for the fuel? **(Record price in dollars)**

Q34. How much bait, measured in either scoops or pounds, was taken/used on this trip? **(Record unit of measure as either "scoops" or "pounds", then record bait quantity in designated units)**

Q35. In dollars or as a percentage of receipts, how much did you pay for bait

taken/used on this trip? **(Record units as either "dollars" or "percentage of receipts", then record bait costs in designated units.)**

Q36. How many crew, including the skipper, were on board for this trip?

Q37. What was the total amount paid by the vessel to the crew for this trip?

Q38. How much would you estimate the crew received in total tips?

Q39. In dollars or as a percentage of receipts, how much was paid to the city or county in taxes for this trip? **(Record units as either "dollars" or "percentage of receipts", then record city/county taxes in designated units.)**

If no more trips were taken on the same day then proceed to FOLLOW UP, otherwise return to Q10 and ask questions 22-39 for next trip reported on same day.

FOLLOW-UP

Q40. Did you receive a letter from us indicating that we would try to contact you for this interview?

1= yes **GO TO Q41**
2= no **Ask for correct mailing address and briefly explain that notification will be sent prior to any later contacts and continue. GO TO Q43**

Q41. **If Q40 is "yes", then ask:** Did you use the optional trip-by-trip form provided with that letter to record any of the information that you just reported?

1= yes
2= no

Q42. **If Q40 is "yes" and respondent provided economic data (Q22-39), then ask:** Did you use the economic data form provided with that letter to record any of the costs and earnings information that you just reported?

1=yes
2=no

Q43. In case the name of vessel is ever selected again for this survey, at what time of day would you prefer to be called? **(Record preferred time as military time.)**

Thank respondent and conclude interview.

Telephone Survey Instrument for Recreational Fishing Charter and Head Boats
Trip-Level Economic Data Collection: Version 2
April 16, 2001

California Directory Telephone Survey Instrument for Separate Collection of Economic Data - 2001

Hello my name is name of interviewer. I'm calling for a survey being conducted for the National Marine Fisheries Service of the U. S. Department of Commerce and the California Department of Fish & Game. Am I speaking to name of contact? **If "no", ask:** Can I please speak with name of contact? **If person sought is not available, ask for convenient time to call back to talk to that person, thank respondent, and terminate interview.**

We are surveying owners and operators of partyboats and charter boats to collect data on the costs and returns associated with charter and party boat activities so that fishery managers can better assess the economic impacts of proposed management regulations. The *name of vessel* has been selected at random from a directory of party boats and charter boats to be included in this week's survey.

I would like to ask you a few questions about trips made last week by the *name of vessel*. This data will remain confidential. This survey is being conducted in accordance with the Privacy Act of 1974, therefore you are not obligated to answer any question if you find it to be an intrusion of your privacy. **(Continue with interview.)**

ECONOMIC QUESTIONS:

SCREENING QUESTION: We mailed a letter to inform you that we would be attempting to contact you for this interview. In that letter we asked you to keep track of costs and earnings information for trips that your vessel made on a particular day. Can you provide costs and earnings information associated with the ***name of vessel***'s trips?

1. yes **CONTINUE**
2. no **(Ask for name and telephone number of appropriate person to provide costs and earnings information, note that other person will have to be contacted for this vessel's economic data, and then continue by attempting to contact the appropriate person.)**

Q1. Did the ***name of vessel*** take any trips on ***assigned day/date***? **If not, then**

ask: What was the first day after ***assigned day/date*** when the boat took a trip? **If first day with trip was not in same week (Monday - Sunday) or no trip was taken after assigned day/date then code as "3".**

1= trips on assigned day **(also record assigned day)**
2= no trips on assigned day, but trips on later day in same week
(also record appropriate subsequent day)
3= no trips on assigned day or later days in same week

If at least one trip reported on assigned day/date (Q2 is "1") or a subsequent day (Q2 is "2") in the week, then proceed as follows:

If only one trip was taken on the assigned or appropriate alternate day, then say: I would like to ask you some additional questions to collect costs and earnings information about your trip on (***provide appropriate day/date****).*

If more than one trip was taken on the assigned or appropriate alternate day, then say: I would like to ask you some additional questions to collect costs and earnings information about each of your trips on (***provide appropriate day/date****).*

Ask questions 3-35 for each trip on the assigned or appropriate alternate day.

***Q3**. **For the first trip, say:** I will start with the first trip on that day. **For each following trip, say:** Now, I will ask you about the next trip on that day. Was that a fishing trip?

1=yes (fishing trip) **GO TO Q4.**
2=no (non-fishing trip) **GO TO Q5.**

***Q4. If Q3 is "fishing trip", ask:** Did that fishing trip primarily target shellfish, salmon, groundfish, or offshore pelagic species like tunas, billfishes, or dorado?

1=shellfish **GO TO Q4A**
2=salmon **GO TO Q5**
3=groundfish **GO TO Q5**
4=offshore pelagics (tunas, billfishes, or dorado) **GO TO Q5**

***Q4A. If Q4 is "shellfish fishing trip", ask:** Were any finfish caught on that shellfish trip?

1=yes (shellfish/finfish trip) **GO TO Q5**
2=no (shellfish only trip) **GO TO Q6**

***Q6. If Q3 is "non-fishing trip", ask:** Was that non-fishing trip primarily for whale watching, bird watching, scuba diving, a burial at sea, or some other purpose?

1=whale watching
2=bird watching
3=scuba diving
4=burial at sea
5=other purpose

Q7. Was that trip a ½ day trip, a ¾ day trip, a 1-day trip, or a multi-day trip ? **If "mulit-day", ask:** How many days? **(Record length of trip in partial or whole days)**

Q8. At what time of day (to the nearest half-hour) did your boat leave for that trip: **(Record return time as military time)**
0030-2400

Q9. At what time of day (to the nearest half-hour) did your boat return to port from that trip: **(Record return time as military time)**
0030-2400

Q10. From what state and county did the trip originate? **(Record state and** county of trip)

Q11. From what port did the trip originate? **(Record name of port)**

Q12. Was most of your recreational (fishing) activity on this trip in the ocean, a gulf, a river, a sound or a bay? **If "bay", ask:** Was that a closed or semi-enclosed bay? **(Record area.)**
1= ocean, gulf, or open bay **(Ask Q13 & Q14)**
2= sound
3= river
4= closed or semi-enclosed bay
5= other

Q13. **If Q12 is "1", ask:** Was most of your (fishing) activity less than than three miles from shore, between 3 and 200 miles from shore, or greater than 200 miles from shore? (**Record Distance from Shore.)**
1= less than 3 miles
2= between 3 miles and 200 miles
3= greater than 200 miles
8= not applicable (Q12 is not "1").

Q14. **(If Q12 is "1" ask:)** Did the majority of your recreational (fishing) activity for this trip occur in U. S. or Canadian waters?
1= U. S.
2= Canadian
8= not applicable (Q12 is not "1")

Q15. How many paying passengers were on this trip **(Record number of people on trip.)**

1-150 (possible number of passengers)

Q16. **If "fishing trip" then ask:** Excluding captain and crew, how many people fished on the trip? **(Record number of people that fished.)**

1-150 (possible number of anglers)

Q17. Did passengers pay as a group to charter the boat or did passengers pay on a per-head basis for fishing space on the boat?

1 = passengers chartered boat as a group (charter mode) **GO TO Q19**

2 = passengers paid on per-head basis for fishing space (party boat mode) **GO TO Q18**

Definitions:

Charter trip: A trip with paying passengers who hired the vessel as a group.

Party trip: A trip with paying passengers who paid on a per-head basis for fishing space.

Q18. **If Q17 is "Party" then ask:** What was the average fare for one passenger? **GO TO Q20.**

Q19. **If Q17 is "Charter" then ask:** What was the total cost of the charter? **GO TO Q20.**

Q20. Is this vessel owned by the landing?

1= yes

2= no

Q21. Was a commission paid to a landing office for this trip

1= yes

2= no

Q22. **If Q21 is "yes", ask:** In dollars or as a percentage of receipts, how much was that commission? **(Record units as either "dollars" or "percentage of receipts", then record commission in designated units.)**

Q23. Were fees for booking passengers, moorage, or other services included in the commission? **(Record all that apply.)**

Q23a. Passenger booking fees included?

1 = yes

2 = no

Q23b. Moorage fees included?

1 = yes

2 = no

Q23c. Fees for other services included?

1 = yes **(Ask respondent to identify "other services" and record verbatim response)**

2 = no

Q24. Were food and drink sold to passengers by the vessel?

1 yes **GO TO Q27 (?)**

2 no

Q25. Did the crew sell food and drink to passengers?

1. yes
2. no **GO TO Q27**

Q26. How much would you estimate were the net earnings by the crew for the food and drink that they sold?

Q27. Excluding fare or charter costs what were total vessel receipts for the trip? Please include tackle sales and vessel sales of food or drink.

Q28. How much fuel was used on this trip? **(Record fuel amount in gallons)**

Q29. What price per gallon was paid for the fuel? **(Record price in dollars)**

Q30. How much bait, measured in either scoops or pounds, was taken/used on this trip? **(Record unit of measure as either "scoops" or "pounds", then record bait quantity in designated units)**

Q31. In dollars or as a percentage of receipts, how much did you pay for bait taken/used on this trip? **(Record units as either "dollars" or "percentage of receipts", then record bait costs in designated units.)**

Q32. How many crew, including the skipper, were on board for this trip?

Q33. What was the total amount paid by the vessel to the crew for this trip?

Q34. How much would you estimate the crew received in total tips?

Q35. In dollars or as a percentage of receipts, how much was paid to the city or county in taxes for this trip? **(Record units as either "dollars" or "percentage of receipts", then record city/county taxes in designated units.)**

If no more trips were taken on the same day then proceed to FOLLOW UP, otherwise return to Q3 and ask questions 3-35 for next trip reported on same day.

FOLLOW UP:

Q36. Did you receive a letter from us indicating that we would try to contact you for this interview?

1=yes
2=no **(Ask for correct mailing address and briefly explain that notification will be sent prior to any later contacts and continue.)**

Q37. **If Q38 is "yes", then ask:** Did you use the enclosed optional form to record any of the costs and earnings information that you just reported on your boat's trips?

1=yes
2=no

Q38. In case the name of vessel is ever selected again for this survey, at what time of day would you prefer to be called? **(Record preferred time as military time.)**

Thank respondent and conclude interview.

Appendix J

CHBTS Validation Questionnaire

TELEPHONE SURVEY VERIFICATION QUESTIONNAIRE
April 16, 2001

Hello my name is name of interviewer. I'm calling for a survey being conducted by the National Marine Fisheries Service of the U. S. Department of Commerce. Am I speaking to name of contact? **If "no", ask:** Can I please speak with name of contact? **If person sought is not available, ask for convenient time to call back to talk to that person, thank respondent and terminate interview.**

SCREENING QUESTIONS: I am calling to verify that you were contacted on interview date concerning the fishing activity of the name of vessel for the week of sample week dates (Monday-Sunday). Were you contacted?

If "YES", continue.
If "NO", thank respondent and terminate interview.

I would like to verify that the information you provided was documented correctly by our surveyor. We are required to conduct follow-up verification of 10 % of all telephone interviews conducted. Your interview was selected at random for this validation call. This data will remain confidential. This survey is being conducted in accordance with the Privacy Act of 1974, therefore you are not obligated to answer any question if you find it to be an intrusion of your privacy. **(Continue with interview.)**

Note - "X" refers to the answers given the phone surveyor in the previous interview. If the answers you receive differ from what is documented in the previous interview, record the correct response and document the correction.

*Q1. During the week of sample week dates (Monday - Sunday), did the name of vessel take X (RF_TRIPS) saltwater fishing trips with paying passengers? **If "0" then thank respondent and terminate interview.**

*Q1A. Did X (MD_TRIPS) of these fishing trips with paying passengers cover more than one day of fishing? **If "0" then thank respondent and terminate interview.**

*Q2. Did your boat take X (number of trips that day) saltwater fishing trips with paying passengers that ended on day of week (working from Sunday - Monday, starting with the first reported trip)? **If "yes", repeat this and the following questions for each day of the week. If more than one trip is made in one day, profile each trip separately for that day.**

*Q3. Was this a X (mode) trip?
If "yes", continue.

If "no", ask: Did passengers pay to charter the boat as a group or did they pay as individuals to fish on the boat?

6=passengers paid as individuals to fish on boat (head mode)
7=passengers chartered boat as a group (charter mode)

Definitions:
Head trip: A trip with paying passengers who paid to fish as individuals.
Charter trip: A trip with paying passengers who hired the vessel as a group.

*Q4. Did X (PEOPLE) passengers go to fish on the boat? **If "no", ask:**

*Q5. Did X (ANGLERS) passengers actually fish, excluding captain and crew?

*Q6. Was this trip taken from a X (state) access site? **If "no", ask:** From what state was the trip taken? **(Record state of trip.)**

'45'= South Carolina
'37'= North Carolina
'13'= Georgia

*Q7. Was this trip taken from X (County)? **If "no", ask:** From which county was this trip taken? **(Record county of trip.)**
See FIPS codes in Intercept Survey Training Manual.

*Q8. Was most of your fishing effort on that trip in the X (Area)? **If "no", ask:** In which area did most of your fishing take place on that trip? **(Record primary area fished on trip.)**

1= ocean less than 3 miles
2= ocean greater than 3 miles
5= inland

Repeat Questions 2-8 until all trips in the past week have been verified.
When interview completed thank respondent and conclude interview.

Appendix K

RDD Telephone Interview Data Set Formats, Variables, and Codes

Fishing Household Telephone Interview Files

TYPE 1 RECORDS **HOUSEHOLD INFORMATION**

Data Set Name: TEL.T1_20003 Observations: 5214
Member Type: DATA Variables: 28
Engine: V611 Indexes: 0
Created: 16:30 Friday, August 18, 2000 Observation Length: 232
Last Modified: 16:30 Friday, August 18, 2000 Deleted Observations: 0

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	CNTY_RES	Num	8	8	COUNTY OF RESIDENCE - FIPS CODE
3	CODENUM	Num	8	16	HOUSEHOLD ID NUMBER (UNIQUE FOR EACH HH)
1	COMMERCE	Num	8	0	NO. OF COMMERCIAL FISHERMEN IN HHOLD
23	DATE1	Char	14	178	DATE DATASET CREATED
4	FF2	Num	8	24	NUMBER OF 2 MONTH ANGLERS IN STATE ONLY
5	FF12	Num	8	32	NUM. OF 12MON.FSHMN INSTATE
21	FRESH2	Num	8	160	ANY FRESHWATER FISHING IN PAST 2 MONTHS 1=Yes 2=No
20	FRESH12	Num	8	152	ANY FRESHWATER FISHING IN PAST 12 MONTHS 1=Yes 2=No
26	MUNI_RES	Num	8	208	MUNICIPIO (ISLAND) OF RESIDENCE
6	NOTINT_F	Num	8	40	NEVER INT. NO PROXY DATA INCL INSTATE
7	NOTINT_O	Num	8	48	CHILDREN/OTHER LANG. W/PROXY INSTATE
8	NOTINT_R	Num	8	56	ANGLERS REFUSING TO GIVE DATA INSTATE
9	NOTINT_U	Num	8	64	ANGLERS W/PROXY DATA INCL INSTATE
10	NUM_INT	Num	8	72	NUM. 2MO. FSHMN INSTATE
11	OUTLIER	Num	8	80	OUTLIER VARIFIED OR NOT
12	OUT_FF	Num	8	88	NUMBER OF 2 MONTH OUT OF STATE ANGLERS
22	PHONENUM	Char	10	168	PHONE NUMBER OF HH
13	PH_800	Num	8	96	RESPONDENT CALLED IN ON 800 PH NUMBER 1=Yes 2=No
14	REG_RES	Num	8	104	REGION OF RESIDENCE 1 = Southern California 2 = Northern California 3 = Pacific Northwest 4 = North Atlantic 5 = Mid-Atlantic 6 = South Atlantic 7 = Gulf of Mexico 8 = Hawaii 9 = Texas 10 = Alaska 11 = Caribbean
24	REL_DATE	Char	8	192	DATE RECORD RELEASED FOR CALLING
15	ST_RES	Num	8	112	STATE OF RESIDENCE - FIPS CODE
25	SUBSIST	Num	8	200	RECREATION V. SUBSISTENCE FISHING (PUERTO RICO/VI ONLY) 01-ALL SUB, 02-MOSTLY SUB, 03-BOTH SUB & REC., 04-MOSTLY REC, 05-ALL REC, 98-DON'T KNOW, 99-REFUSED
16	TOT_2MO	Num	8	120	TOTAL IN STATE AND OUT OF STATE ANGLERS
17	TOT_HH	Num	8	128	TOTAL PEOPLE IN HH(FISHING AND NONFISHIN

18	WAVE	Num	8	136	WAVE
19	YEAR	Num	8	144	SURVEY YEAR (4-digit)

TYPE 2 RECORDS **ANGLER INFORMATION**

Data Set Name: TEL.T2_20003 Observations: 8786
Member Type: DATA Variables: 30
Engine: V611 Indexes: 0
Created: 16:30 Friday, August 18, 2000 Observation Length: 246
Last Modified: 16:30 Friday, August 18, 2000 Deleted Observations: 0

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	CNTY_RES	Num	8	8	COUNTY OF RESIDENCE - FIPS CODE
1	CODENUM	Num	8	0	HOUSEHOLD ID
10	DATE1	Char	14	72	DATE DATASET CREATED
5	DATE_INT	Char	8	32	DATE OF INTERVIEW
14	FSHRNUM	Num	8	110	FISHERMAN NUMBER
27	INTVUER	Num	8	214	INTERVIEWER ID
15	LANG	Num	8	118	LANGUAGE OF INTERVIEW 1=English 2=Spanish
28	MUNI_RES	Num	8	222	MUNICIPIO (ISLAND) OF RESIDENCE
9	NUM_TRPS	Num	8	64	NUMBER OF TRIPS
3	REG_RES	Num	8	16	REGION OF RESIDENCE
7	RM_1	Num	8	48	WAS REMAINING DAYS CHANGED? 1 respondent will continue 2 need to change number of initial trips 3 respondent refused
6	RM_DAYS	Num	8	40	NUMBER OF REMAINING DAYS
18	RM_PC	Num	8	142	NO. OF REMAINING PARTY/CHARTER TRIPS
20	RM_PCCTY	Num	8	158	REMAINING PARTY/CHARTER COUNTY
19	RM_PCST	Num	8	150	REMAINING PARTY/CHARTER STATE
21	RM_PR	Num	8	166	NO. OF REMAINING PRIVATE/RENTAL TRIPS
23	RM_PRCTY	Num	8	182	REMAINING PRIVATE/RENTAL COUNTY
22	RM_PRST	Num	8	174	REMAINING PRIVATE/RENTAL STATE
24	RM_SH	Num	8	190	NO. OF REMAINING SHORE TRIPS
26	RM_SHCTY	Num	8	206	REMAINING SHORE COUNTY
25	RM_SHST	Num	8	198	REMAINING SHORE STATE
12	RSP_77	Num	8	94	DIDN'T DISCUSS ALL TRIPS; 1=CAN'T REMEMBER; 2=REFUSES; 3=PROXY DON'T KNOW; 4=ALL TRIPS SAME
13	SOURCE	Num	8	102	INFORMATION PROVIDED BY
4	ST_RES	Num	8	24	STATE OF RESIDENCE - FIPS CODE
8	SW_TOURN	Num	8	56	(BLANK - NOT USED)
11	TWO_MON	Num	8	86	2 MONTH INFO - RECALL ALL TRIPS? 1=Yes 2=No
16	WAVE	Num	8	126	SURVEY WAVE
17	YEAR	Num	8	134	SURVEY YEAR

TYPE 3 RECORDS **TRIP INFORMATION**

Data Set Name: TEL.T3_20003 Observations: 15276
Member Type: DATA Variables: 36
Engine: V8 Indexes: 0
Created: 9:20 Monday, April 23, 2001 Observation Length: 272
Last Modified: 9:20 Monday, April 23, 2001 Deleted Observations: 0

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
1	ACCESS	Num	8	0	PUBLIC VS PRIVATE ACCESS
29	AREA	Char	2	240	AREA OF FISHING
2	CNTY	Num	8	8	COUNTY OF TRIP
3	CNTY_RES	Num	8	16	COUNTY OF RESIDENCE
4	CODENUM	Num	8	24	HOUSEHOLD ID
30	DATE1	Char	14	242	DATE DATASET CREATED
31	DATE_TRP	Char	8	256	DATE OF TRIP
5	FOREIGN	Num	8	32	FOREIGON WATERS
6	FOR_BASS	Num	8	40	FISHED FOR STRIPED BASS
7	FSHRNUM	Num	8	48	FISHERMAN NUMBER
8	KEP_BASS	Num	8	56	NUMBER STRIPED BASS KEPT
9	LAUNCH	Num	8	64	BOAT LAUNCH SITES CHARACTERISTICS
32	MODE2000	Char	2	264	FISHING MODE 2000 CODING
36	MODE_F	Char	1	267	MODE OF FISHING
35	MODE_FX	Char	1	266	MODE COLLAPSED
33	MUNI_RES	Num	8	224	MUNICIPIO (ISLAND) OF RESIDENCE
34	MUNI_TRP	Num	8	232	MUNICIPIO (ISLAND) OF TRIP
10	NUM_BASS	Num	8	72	NUMBER STRIPED BASS CAUGHT
24	PCCOST	Num	8	184	AMOUNT PER PERSON YOU PAID TO GO ON BOAT; 7700=STOP RECORDING; 9800=DON'T KNOW; 9900=REFUSED
26	PCNUM	Num	8	200	NUMBER OF PEOPLE ON BOAT (EXCLUDE CAPTAIN/CREW); 7700=LOOP STOP; 9800=DON'T KNOW; 9900=REFUSED
25	PCPAID	Num	8	192	DID SOMEONE ELSE PAY FOR YOU; 1=YES; 2=NO; 77=LOOP STOP; 98=DON'T KNOW; 99=REFUSED
27	PCTYPE	Num	8	208	TYPE OF FISHING; 1=BOTTOM; 2=TROLLING; 3=DRIFT; 4=NONE OF THESE; 77=LOOP STOP; 98=DON'T KNOW; 99=REFUSED
28	POTRIVER	Num	8	216	POTOMAC RIVER FISHING WAS TRIP IN POTOMAC RIVER (VA AND MD RESIDENTS ONLY W/ RIVER FISHING); 1=YES; 2=NO; 98=DON'T KNOW; 99=REFUSED
11	PUNCH	Num	8	80	PUNCH CARD AREAS IN WASHINGTON (0-13); 77=LOOP STOP; 98=DK/REF
12	REG_RES	Num	8	88	REGION OF RESIDENCE
13	RIVER	Num	8	96	RIVER CODE; 77=LOOP STOP; 98=DON'T KNOW; 99=REFUSED
14	SALMON	Num	8	104	SALMON TRIP; 1=YES
15	ST	Num	8	112	STATE OF TRIP
16	ST_RES	Num	8	120	STATE OF RESIDENCE

(continued)

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
17	SUB_REG	Num	8	128	SUBREGION OF TRIP 1 = Southern California 2 = Northern California 3 = Pacific Northwest 4 = North Atlantic 5 = Mid-Atlantic 6 = South Atlantic 7 = Gulf of Mexico 8 = Hawaii 9 = Texas 10 = Alaska 11 = Caribbean
18	TIME	Num	8	136	TIME OF DAY
19	TRIP_FLG	Num	8	144	IN OR OUT OF STATE TRIP FOR PC ONLY
20	TRIP_NUM	Num	8	152	TRIP NUMBER
21	WAVE	Num	8	160	WAVE
22	WEEKEND	Num	8	168	WEEKEND/WEEKDAY QUESTION 1=WEEKEND; 2=WEEKDAY; 9=DON'T KNOW
23	YEAR	Num	8	176	SURVEY YEAR

TYPE 6 RECORD **FLEX QUESTIONS - 2000**

Variable	Type	Len	Description
WENT_SF	NUM	8	DID ANYONE IN HH GO SHELLFISHING IN LAST 12 MONTHS; 1=YES; 2=NO; 77=LOOP STOP; 98=DON'T KNOW; 99=REFUSED

CONCH12	NUM	8	# PEOPLE IN HH SHELLFISHING IN LAST 12 MONTHS;
			77=LOOP STOP; 98=DK; 99=REFUSED (TARGET: CONCH)

SP_LOB12	NUM	8	# PEOPLE IN HH SHELLFISHING IN LAST 12 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF (TARGET: SPINY LOBSTER)

WHELK12	NUM	8	# PEOPLE IN HH SHELLFISHING IN LAST 12 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF (TARGET: WHELK)

TRPS_CON	NUM	8	# SHELLFISHING TRIPS IN PAST 2 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF; (TARGET: CONCH)

TRPS_LOB	NUM	8	# SHELLFISHING TRIPS IN PAST 2 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF; (TARGET: SPINY LOBSTER)

TRPS_WLK	NUM	8	# SHELLFISHING TRIPS IN PAST 2 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF; (TARGET: WHELK)

CONCH02	NUM	8	AVERAGE # PEOPLE IN HH SHELLFISHING IN LAST 2 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF; (TARGET: CONCH)

SP_LOB02	NUM	8	AVERAGE # PEOPLE IN HH SHELLFISHING IN LAST 2 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF; (TARGET: SPINY LOBSTER)

WHELK02	NUM	8	AVERAGE # PEOPLE IN HH SHELLFISHING IN LAST 2 MONTHS;
			77=LOOP STOP; 98=DK; 99=REF; (TARGET: WHELK)

CNTY_RES	NUM	8	COUNTY OF RESIDENCE (ISL. OR MUNICIP.) - FIPS CODE
CODENUM	NUM	8	HOUSEHOLD ID NUMBER (UNIQUE FOR EACH HH)
DATE1	NUM	8	DATE DATASET CREATED
REG_RES	NUM	8	SUB-REGION OF RESIDENCE; 1 = Southern California 2 = Northern California 3 = Pacific Northwest 4 = North Atlantic 5 = Mid-Atlantic 6 = South Atlantic 7 = Gulf of Mexico 8 = Hawaii 9 = Texas 10 = Alaska 11 = Caribbean
ST_RES	NUM	8	STATE OF RESIDENCE - FIPS CODE
WAVE	NUM	8	WAVE OF SURVEY
YEAR	NUM	8	YEAR OF SURVEY

Type 8 Records **PACIFIC ECONOMIC ADD-ON INFORMATION**

Variable	Type	Len	Label Description
CNTY_RES	NUM	8	COUNTY OF RESIDENCE - FIPS CODE
CODENUM	NUM	8	HOUSEHOLD ID NUMBER (UNIQUE FOR EACH HH W/IN WAVE)
DATE1	CHAR	14	DATE DATASET CREATED BY CONTRACTOR
REG_RES	NUM	8	REGION OF RESIDENCE
ST_RES	NUM	8	STATE OF RESIDENCE - FIPS CODE
WAVE	NUM	8	WAVE WAVE OF SURVEY
YEAR	NUM	8	SURVEY YEAR YEAR OF SURVEY
FSHRNUM	NUM	8	FISHERMAN NUMBER ANGLER NUMBER
ST_TRIP	NUM	8	STATE OF TRIP - FIPS CODE
CTY_TRIP	NUM	8	COUNTY OF TRIP - FIPS CODE
AGE	NUM	8	Are you at least 16 years of age 1=YES; 2=NO
TARGOT_1	CHAR	30	NAME OF SPECIES IDENTIFIED AS FIRST TARGET SPECIES
TARGOT_2	CHAR	30	NAME OF SPECIES IDENTIFIED AS SECOND TARGET SPECIES
TARGET1	CHAR	10	SPECIES CODE OF FIRST TARGET SPECIES
TARGET2	CHAR	10	SPECIES CODE OF SECOND TARGET SPECIES
TRIP_LEN	NUM	8	Was that day of fishing part of a longer trip 1=YES; 2=NO; 8=DON'T KNOW; 9=REFUSED
TRIPNITE	NUM	8	NUMBER OF NIGHTS AWAY FROM HOME; 998=DK; 999=REF
PEOP_TRV	NUM	8	NUMBER OF PEOPLE TRAVELLING TOGETHER; 98=DK; 99=REF
PEOP_FSH	NUM	8	NUMBER OF PEOPLE WHO FISHED; 98=DK; 99=REF
TRIP_I01	NUM	8	TRIP:INDIVIDUAL food, drink and refreshments AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_G01	NUM	8	TRIP:GROUP food, drink and refreshments AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_I02	NUM	8	TRIP:IND lodging AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_G02	NUM	8	TRIP:GRP lodging AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_I04	NUM	8	TRIP:IND boat fuel AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_G04	NUM	8	TRIP:GRP boat fuel AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_I08	NUM	8	TRIP:IND passenger fees, tips, filleting, smoking, canning? AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_G08	NUM	8	TRIP:GRP passenger fees, tips, filleting/smoking/ canning? AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_I09	NUM	8	TRIP:IND bait and ice AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_G09	NUM	8	TRIP:GRP bait and ice AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_I10	NUM	8	TRIP:IND estimated total trip expenses AMOUNT SPENT; 99998=DK; 99999=REF
TRIP_G10	NUM	8	TRIP:GRP estimated total trip expenses AMOUNT SPENT; 99998=DK; 99999=REF
TPCT_CTY	NUM	8	TRIP: proportion of expenditures (county of trip) PERCENTAGE; 998=DK; 999=REF
TPCT_ST	NUM	8	TRIP: proportion of expenditures (outside county of trip but in state of trip) PERCENTAGE; 998=DK; 999=REF
EQUIP_01	NUM	8	EQUIP: purchases in months - rods, reels, etc. AMOUNT SPENT; 99998=DK; 99999=REF
EQUIP_02	NUM	8	EQUIP: purchases in months - tackle and gear AMOUNT SPENT; 99998=DK; 99999=REF
EQUIP_03	NUM	8	EQUIP: purchases in months - estimated total AMOUNT SPENT; 99998=DK; 99999=REF
EPCT_CTY	NUM	8	EQUIP: proportion of expenditures in county of

residence PERCENTAGE; 998=DK; 999=REF

(continued)

Variable	Type	Len	Label Description
EPCT_ST	NUM	8	EQUIP: proportion of expenditures outside county of residence but in state of residence PERCENTAGE; 998=DK; 999=REF
BOAT_OWN	NUM	8	BOAT: personally own boat used for sw rec. fishing? 1=YES; 2=NO; 8=DK; 9=REF
BOAT_EXP	NUM	8	BOAT: mooring, storage, maintenance, accessories, etc. AMOUNT SPENT; 99998=DK; 99999=REF
BPCT_CTY	NUM	8	BOAT: proportion of expenditures (cnty of residence) PERCENTAGE; 998=DK; 999=REF
BPCT_ST	NUM	8	BOAT: proportion of expenditures (outside cnty of res but in state res) PERCENTAGE; 998=DK; 999=REF
OTHIT_03	NUM	8	OTHER: purchases in months - clothing AMOUNT SPENT; 99998=DK; 99999=REF
OTHIT_05	NUM	8	OTHER: purchases in months - magazines AMOUNT SPENT; 99998=DK; 99999=REF
OTHIT_06	NUM	8	OTHER: purchases in months - dues AMOUNT SPENT; 99998=DK; 99999=REF
OTHIT_07	NUM	8	OTHER: purchases in months - estimated total AMOUNT SPENT; 99998=DK; 99999=REF
OPCT_CTY	NUM	8	OTHER: proportion of expenditures (cnty of residence) AMOUNT SPENT; 998=DK; 999=REF
OPCT_ST	NUM	8	OTHER: proportion of expenditures (outside county of res but in state res) AMOUNT SPENT; 998=DK; 999=REF

Appendix L

Non-Fishing Household
Data Set Formats, Variables and Codes

ATL/GULF NON-FISHING HOUSEHOLD DATA - RAW - WAVE 4 2000

The CONTENTS Procedure

Data Set Name: WORK.A	Observations: 412
Member Type: DATA	Variables: 14
Engine: V8	Indexes: 0
Created: 8:25 Monday, April 23, 2001	Observation Length: 120
Last Modified: 8:25 Monday, April 23, 2001	Deleted Observations: 0

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	CNTY_RES	Num	8	8	COUNTY OF RESIDENCE - FIPS CODE
6	FISHING	Num	8	40	# OF FISHING HSHLDS (INCLUDING 0 TRIP HHLDS)
11	FLE_DATE	Char	14	104	DATE SAS FILE CREATED BY MACRO
8	FRESH_2	Num	8	56	NO. OF 2-MONTH FRESHWATER FISHING HHLDS
9	FRESH_12	Num	8	64	NO. OF 12-MONTH FRESHWATER FISHING HHLDS
3	HH_NOINT	Num	8	16	INITIALLY ID'D AS FISHING HH BUT NO INTERVIEW TO CONFIRM OR OBTAIN INFO
5	NON_FISH	Num	8	32	NUMBER OF NON FISHING HH REPORTED
7	NON_SW	Num	8	48	INITIALLY ID'D AS FISHING HH BUT SUBSEQUENT INTERVIEW DETERMINED NON-FISH OR FRESHWATER
10	PERCENT	Num	8	72	% FISHING HSHLDS (FISHING/TOT_CONT)
4	REG_RES	Num	8	24	REGION OF RESIDENCE ASSIGNED BY MACRO 1 = Southern California 2 = Northern California 3 = Pacific Northwest 4 = North Atlantic 5 = Mid-Atlantic 6 = South Atlantic 7 = Gulf of Mexico
1	ST_RES	Num	8	0	STATE OF RESIDENCE - FIPS CODE
12	TOT_CONT	Num	8	80	SAMPLE SIZE (NON_FISH + FISHING)
13	WAVE	Num	8	88	WAVE OF SURVEY
14	YEAR	Num	8	96	YEAR OF SURVEY

Appendix L

Non-Fishing Household
Data Set Formats, Variables and Codes

ATL/GULF NON-FISHING HOUSEHOLD DATA - RAW - WAVE 4 2000

The CONTENTS Procedure

Data Set Name: WORK.A	Observations: 412
Member Type: DATA	Variables: 14
Engine: V8	Indexes: 0
Created: 8:25 Monday, April 23, 2001	Observation Length: 120
Last Modified: 8:25 Monday, April 23, 2001	Deleted Observations: 0

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	CNTY_RES	Num	8	8	COUNTY OF RESIDENCE - FIPS CODE
6	FISHING	Num	8	40	# OF FISHING HSHLDS (INCLUDING 0 TRIP HHLDS)
11	FLE_DATE	Char	14	104	DATE SAS FILE CREATED BY MACRO
8	FRESH_2	Num	8	56	NO. OF 2-MONTH FRESHWATER FISHING HHLDS
9	FRESH_12	Num	8	64	NO. OF 12-MONTH FRESHWATER FISHING HHLDS
3	HH_NOINT	Num	8	16	INITIALLY ID'D AS FISHING HH BUT NO INTERVIEW TO CONFIRM OR OBTAIN INFO
5	NON_FISH	Num	8	32	NUMBER OF NON FISHING HH REPORTED
7	NON_SW	Num	8	48	INITIALLY ID'D AS FISHING HH BUT SUBSEQUENT INTERVIEW DETERMINED NON-FISH OR FRESHWATER
10	PERCENT	Num	8	72	% FISHING HSHLDS (FISHING/TOT_CONT)
4	REG_RES	Num	8	24	REGION OF RESIDENCE ASSIGNED BY MACRO 1 = Southern California 2 = Northern California 3 = Pacific Northwest 4 = North Atlantic 5 = Mid-Atlantic 6 = South Atlantic 7 = Gulf of Mexico
1	ST_RES	Num	8	0	STATE OF RESIDENCE - FIPS CODE
12	TOT_CONT	Num	8	80	SAMPLE SIZE (NON_FISH + FISHING)
13	WAVE	Num	8	88	WAVE OF SURVEY
14	YEAR	Num	8	96	YEAR OF SURVEY

Appendix M

CHBTS Vessel Directory Data Set Formats, Variables, and Codes

FOR-HIRE VESSEL DATABASE
VARIABLE DESCRIPTIONS

ST	State Code (FIPS Code) E.g. '45'=South Carolina (ALL boats for equal prob. of sampling)
VSL_ID	Vessel ID Number for the Survey E.g. South Carolina '4500001-'4599999'
VSL_NUM	Vessel registration number (CG, state registration #, etc.)
VSL_NAME	Name of vessel
ACTIVE	If the vessel is currently participating in the charter boat fishery 'A'=Active 'I'=Inactive
ELIG	If the vessel is an eligible for-hire fishing boat 'Y'=Eligible 'N'=Ineligible
FOR_HIRE	Type of for-hire vessel 'C'=Charter boat; 'H'=Head boat;
REP_LST	Last name of the vessel representative (person most likely to know about the fishing activity of the vessel)
REP_1ST	First name of the vessel representative
REP_FON1	Primary phone number of the vessel representative
REP_FON2	2nd phone number of the vessel representative
REP_FON3	3rd phone number of the vessel representative
REP_ADD	Address of the vessel representative
REP_CTY	City of the vessel representative
REP_ST	State of residence of the vessel representative
REP_ZIP	Zip code of the vessel representative
BUSICNTY	County where the charter boat is docked (NMFS FIPS codes: <st><cnty>, e.g. '45019')
COOP_STT	Degree of cooperation of the vessel representative 'Y'=Willing to participate in survey 'N'=Non willing to participate in survey
BST_TIME	Best time to contact the vessel representative to conduct the survey
BUSINESS	Name of charter boat business

BUSI_ADD	Physical address for where the charter boat is docked
BUSI_CTY	City where the charter boat is docked
BUSI_ST	State where the charter boat is docked
BUSI_ZIP	Zip code for the charter boat location
COMMENTS	Any comments that might be useful in interpreting the information in the data base
CPT1FON1	First captain's 1st (primary) phone number
CPT1FON2	First captain's 2nd phone number
CPT1FON3	First captain's 3rd phone number
CPT1_LST	First captain's last name
CPT1_1ST	First captain's first name
CPT1_ADD	First captain's address
CPT1_CTY	First captain's city
CPT1_ST	First captain's state of residence
CPT1_ZIP	First captain's zip code
CPT2FON1	Second captain's 1st (primary) phone number
CPT2FON2	Second captain's 2nd phone number
CPT2FON3	Second captain's 3rd phone number
CPT2_LST	Second captain's last name
CPT2_1ST	Second captain's first name
CPT2_ADD	Second captain's address
CPT2_CTY	Second captain's city
CPT2_ST	Second captain's state of residence
CPT2_ZIP	Second captain's zip code
OWNR_1ST	Vessel owner's first name
OWNR_LST	Vessel owner's last name
LIC_CAP	Licensed capacity of the vessel
PERM_NUM	For-hire permit number (state or federal, if existing)

PERM_CAP	Permitted capacity class 2 = Charterboat 3 = Headboat, 7-49 passengers 4 = Headboat, > 49 passengers
PORT	Port of operations for the vessel (marina, ramp, dry storage facility)
VERIFIED	If the information for the vessel is verified 'Y'=Data is verified 'N'=Data is not verified
VSL_LEN	Length (in feet) of vessel - Integer only
R_WAVE_N	Wave which the vessel will begin actively participating in the for-hire fishery
R_WAV_MN	Month which the vessel will begin actively participating in the for-hire fishery
HIN	Hull identification number
GEO_CNTY	For the sample draws to ensure geographical distribution - this variable is assigned by draw program but needs to be in this database.
DATE_NEW	Date which a new vessel was added to the data base (format: YYYYMMDD)
DATE_MOD	Date which information regarding an existing vessel was updated (format: YYYYMMDD)
P_ACCESS:	Primary Type of Access used by Vessel for the Wave '1' = Private Dock '2' = Trailered, Launch Ramp '3' = Private Access Marina '4' = Public Access Marina
INTSITE	Location of Vessel (MRFSS 4-digit site codes)

CHARTER BOAT VESSEL DATABASE
FILE STRUCTURE & VARIABLE FORMATS

Variable Name	Char/ Num	Field Length	Variable Description
ST	Char	2	Charter boat vessel state
VSL_ID	Char	7	Vessel ID (randomly assigned ID, E.g. SC format: 450xxxx)
VSL_NUM	Char	9	Vessel registration number (CG, state registration #, etc.)
VSL_NAME	Char	35	Name of vessel
ACTIVE	Char	1	If the vessel is currently participating in the charter boat fishery
ELIG	Char	1	If the vessel is an eligible for-hiring fishing boat
FOR_HIRE	Char	1	Type of for-hire vessel
VSL_LEN	Char	8	Length (in feet) of vessel
LIC_CAP	Char	8	Licensed capacity of the vessel
PERM_CAP	Char	1	Permitted capacity class
PERM_NUM	Char	8	For-hire permit number
REP_LST	Char	25	Last name of the vessel representative
REP_1ST	Char	25	First name of the vessel representative
REP_ADD	Char	35	Address of the vessel representative
REP_CTY	Char	23	City of the vessel representative
REP_ST	Char	2	State of residence of the vessel representative
REP_ZIP	Char	10	Zip code of the vessel representative
REP_FON1	Char	20	Primary phone number of the vessel representative
REP_FON2	Char	20	2nd phone number of the vessel representative
REP_FON3	Char	20	3rd phone number of the vessel representative
BUSICNTY	Char	23	County where the charter boat is docked (NMFS FIPS codes)
COOP_STT	Char	1	Degree of cooperation of the vessel representative
BST_TIME	Char	20	Best time to contact the vessel representative to conduct the survey
BUSINESS	Char	35	Name of charter boat business
BUSI_ADD	Char	35	Physical address for where the charter boat is docked
BUSI_CTY	Char	23	City where the charter boat is docked
BUSI_ST	Char	2	State where the charter boat is docked
BUSI_ZIP	Char	10	Zip code for the charter boat location
COMMENTS	Char	50	Comments that might be useful in interpreting the information in the data base
CPT1FON1	Char	20	First captain's 1st (primary) phone number
CPT1FON2	Char	20	First captain's 2nd phone number
CPT1FON3	Char	20	First captain's 3rd phone number
CPT1_LST	Char	25	First captain's last name
CPT1_1ST	Char	25	First captain's first name
CPT1_ADD	Char	35	First captain's address
CPT1_CTY	Char	23	First captain's city
CPT1_ST	Char	4	First captain's state of residence
CPT1_ZIP	Char	10	First captain's zip code
CPT2FON1	Char	20	Second captain's 1st (primary) phone number
CPT2FON2	Char	20	Second captain's 2nd phone number
CPT2FON3	Char	20	Second captain's 3rd phone number
CPT2_LST	Char	25	Second captain's last name
CPT2_1ST	Char	25	Second captain's first name
CPT2_ADD	Char	35	Second captain's address
CPT2_CTY	Char	23	Second captain's city
CPT2_ST	Char	4	Second captain's state of residence
CPT2_ZIP	Char	10	Second captain's zip code

OWNR_1ST	Char	25	Vessel owner's first name
OWNR_LST	Char	25	Vessel owner's last name
PORT	Char	23	Port of operations for the vessel
VERIFIED	Char	1	If the information for the vessel is verified
R_WAVE_N	Char	1	Wave which the vessel will begin actively participating in the for-hire fishery
R_WAV_MN	Char	2	Month which the vessel will begin actively participating in the for-hire fishery
HIN	Char	25	Hull identification number
GEO_CNTY	Char	12	For the sample draws to be distributed geographically
DATE_NEW	Char	6	Date which a new vessel was added to the data base
DATE_MOD	Char	6	Date which information regarding an existing vessel was updated
P_ACCESS	Char	1	Type of access used by vessel for the wave
INTSITE	Char	4	MRFSS Site Code of vessel port

Appendix N

CHBTS Interview Data Set Formats, Variables and Codes

FOR-HIRE PHONE SURVEY

Variable Descriptions

INT_ID Interviewer ID Code
Range: 0001-9999 - not to overlap MRFSS intercept interviewers

VSL_ID Vessel ID Number for the Survey
E.g. ‘4500001'-‘4509999'

VSL_TYP Vessel Type (Charter or Headboat as determined from the For-hire Directory)
‘C'=charter
‘H'=headboat

SMP_WEEK Sampling Week
Range: ‘1'-‘52'

YEAR Sampling Year
‘2002'=2002
‘2003'=2003
‘2004'=2004

WAVE MRFSS Sampling Wave
‘1'=Jan/Feb
‘2'=Mar/Apr
‘3'=May/Jun
‘4'=Jul/Aug
‘5'=Sep/Oct
‘6'=Nov/Dec

SUB_REG Subregion Code
‘4'=North Atlantic
‘5'=Mid Atlantic
‘6'=South Atlantic

ST State Code (FIPS Code)
E.g. ‘45=South Carolina

NUM_REPS Number of Vessel Representatives Contacted
Range: 0-9

REP_NUM Interviewed Vessel Representative Number for the Week (in order of interviews)
Range: 1-9

REP_ID Vessel Representative ID
›1'= Representative
›2'= First Captain
›3'= Second Captain
›4'= Third Captain
›5'= Owner
›6'= New Representative

INT_DATE Date of Vessel Representative Interview
E.g. ‘20000306' = March 6, 2000

INT_TIME Time of Vessel Representative Interview
Range: ‘0900'=’2100'

STATUS Status of Vessel Representative Interview
‘1'=Complete interview
‘2'=Incomplete, but all key questions answered
‘3'=Refusal
‘4'=Language barrier
‘5'=Mid-Interview refusal
‘6'=Inactive
‘7'=No contact
‘8'=Ineligible (Not Fishing)
‘9'=Uncooperative (Fishing; previously refused and asked not to be called again)

BT_TRIPS Number of Dock-to-Dock Vessel Trips
Range: 0-30

RF_TRIPS Number of Vessel Trips for Marine Recreational Fishing (finfish)
Range: 0-30

TRIP_NUM Number of Trip Reported by Vessel Representative
Range: 1-30

TRIP_DAY Day of Week on which Trip Occurred
‘1'=Monday
‘2'=Tuesday
‘3'=Wednesday
‘4'=Thursday
‘5'=Friday
‘6'=Saturday
‘7'=Sunday

TRIPDATE Date of the Trip (Yr/Mo/Day)

E.g. ‘20000228'

T_OF_DAY Trip of Day
›1'=First (or only)
›2'=Second
›3'=Third

PAYMENT Payment for Trip
‘1' = Yes
‘2' = No

MODE_F Mode of Trip
‘6'=*Per* Head *Fee*
‘7'=Charter *Fee*
‘9'=Non For-hire fishing trip

PEOPLE Number of Passengers on trip.
Range 1-150

ANGLERS Number of People who Fished on Trip
Range: 1-150

TRIP_ST State of Access Site for Trip (state FIPS code)
E.g. ‘45'=South Carolina

TRIPCNTY County of Trip - FIPS County Codes

ACCESS Public vs. Private Access
‘1'=Public
›2'=Private
›8'=Don=t Know
›9'=Refused

METHOD1 Primary Fishing Method
›1'=Trolling
›2'=Bottom fishing
›3'=Casting
›4'=Fly fishing
›5'=Other
›6'=Drifting
›8'=Don=t Know
›9'=Refused

METHOD2 Secondary Fishing Method
›1'=Trolling

›2'=Bottom fishing
›3'=Casting
›4'=Fly fishing
›5'=Other
›6'=Drifting
›8'=No Second Method Used
‘9'=Refused

TARGET1 Primary Target Species
(NMFS - MRFSS10 digit species codes)

AREA Primary Fishing Area
‘1'=Ocean gulf or open bay
‘2'=Sound
‘3'=River
‘4'=Enclosed bay
‘5'=Other

DIST Distance from Shore
‘1'=Less than 3 miles
‘2'=Greater than 3 miles
‘8'=Not Applicable (Q10 is not ‘1')

AREA_X Collapsed Primary Fishing Area
›1'=Ocean less than 3 miles
›2'=Ocean greater than 3 miles
›5'=Inland

TIME Time of Return from Trip (nearest half-hour)
Range: ›0030-2400'

HRSF Hours Fished on Trip
Range: 0.5-24.0

MULTIDAY Multi-Day Trip?
›1'=Yes
›2'=No

NOTIFIED Receipt of Notification
‘1'=Yes
‘2'=No

BESTTIME Preferred Time to be call if chosen again
(Record Time in miliary time - ‘0700' - ‘2100')

VERIFIED Was Interview Validated?
›1'=Yes
›2'=No

ERRORS Did Validation Reveal any Errors?
›1'=Yes
›2'=No
›8'=Not Applicable (VERIFIED=2')

VAL_ID Validation Interviewer's Initials
Range: ›AA' to ›ZZ'

VAL_DATE Date of Follow-Up Validation Interview (Year/Mo/Day)
E.g. ›20000228'

ATTEMPTS Number of attempts made to contact vessel representative
Range: 0 - 20

RESULT Result of the last dialing attempt
‘01'= Line Busy
‘02'= No Answer
‘03'=Answering Machine or Service
‘04'=Wrong number - new number available
‘05'=Not available
‘06'=Not in service/wrong number
‘07'=Refusal
‘08'=Communication problem
‘09'=Ineligible
‘10'=Successful Contact
‘11'=Fax/Computer

Variable Formats

Variable	Char/ Num	Field Length	Variable Description Name
INT_ID	Char	4	Interviewer ID
VSL_ID	Char	7	Vessel ID (randomly assigned survey-specific ID)
VSL_TYP	Char	1	Vessel type (indicated on the For-Hire directory)
SMP_WEEK	Char	2	Sampling Week
YEAR	Char	4	Sampling Year
WAVE	Char	1	MRFSS Sampling Wave
SUB_REG	Char	1	Subregion Code
ST	Char	2	State Code (FIPS Code)
NUM_REPS	Num	1	Number of Vessel Representatives Contacted
REP_NUM	Num	1	Interviewed Vessel Representative Number
REP_ID	Char	2	ID of Vessel Representative Interviewed (survey-specific ID)
INT_DATE	Char	8	Date of Vessel Representative Interview (Year/Mo/Day)
INT_TIME	Char	4	Time of Vessel Representative Interview (military time)
STATUS	Char	1	Status Code for Vessel Representative Interview
BT_TRIPS	Num	2	Number of Dock-to-Dock Vessel Trips
RF_TRIPS	Num	2	Number of Vessel Trips for Marine Recreational Fishing
TRIP_NUM	Num	2	Number of Trip Reported by Vessel Representative
TRIP_DAY	Char	1	Day of the Week on which Trip occurred
TRIPDATE	Char	8	Date of the Trip (Year/Mo/Day)
T_OF_DAY	Char	1	Trip of Day (first, second, third)
PAYMENT	Char	1	Payment for Trip
MODE_F	Char	1	Mode of Trip
PEOPLE	Num	*3*	Number of Passengers on trip
ANGLERS	Num	3	Number of People who Fished on Trip
TRIP_ST	Char	2	State of Trip
TRIPCNTY	Char	3	County of Trip
ACCESS	Char	1	Public vs. Private Access
METHOD1	Char	1	Primary Fishing Method
METHOD2	Char	1	Secondary Fishing Method
TARGET1	Num	10	Primary Target Species
AREA	Char	1	Primary Fishing Area
DIST	Char	1	Distance from Shore
AREA_X	Char	1	Collapsed Primary Fishing Area
TIME	Char	4	Time of Return from Trip
HRSF	Num	4	Hours Fished on Trip
MULTIDAY	Char	1	Multi-Day Trip?
NOTIFIED	Char	1	Receipt of Notification
BESTTIME	Char	4	Preferred time to call again
VERIFIED	Char	1	Was Interview Validated?

ERRORS	Char	1	Did Validation Reveal any Errors?
VAL_ID	Char	2	Validation Interviewers Initials
VAL_DATE	Char	8	Date of Follow-Up Validation Interview (Year/Mo/Day)
ATTEMPTS	Num	2	Number of attempts made to contact vessel representative
RESULT	Char	2	Result of the last phone attempt

Appendix O

CHBTS Dialing Results Data Set Formats, Variables and Codes

FOR-HIRE PHONE SURVEY DIALING ATTEMPTS

Variable Descriptions

INT_ID Interviewer ID Code
Range: 0001-9999 - not to overlap MRFSS intercept interviewers

VSL_ID Vessel ID Number for the Survey
E.g. ‘4500001'-‘4509999'

VSL_TYP Vessel Type (Charter or Headboat as determined from the For-hire Directory)
‘C'=charter
‘H'=headboat

SMP_WEEK Sampling Week
Range: ‘1'-‘52'

YEAR Sampling Year
E.g. ‘2002'=2002

WAVE MRFSS Sampling Wave
‘1'=Jan/Feb
‘2'=Mar/Apr
‘3'=May/Jun
‘4'=Jul/Aug
‘5'=Sep/Oct
‘6'=Nov/Dec

SUB_REG Subregion Code
‘4'=North Atlantic
‘5'=Mid Atlantic
‘6'=South Atlantic

ST State Code (FIPS Code)
E.g. ›45:=South Carolina

DIALDATE Date of Dialing Attempt
E.g. ‘20000306' = March 6, 2000

DIALTIME Time of Dialing Attempt
Range: ‘0900'=’2100'

RESULT Result of the last dialing attempt
‘01'= Line Busy

‘02'= No Answer
‘03'=Answering Machine or Service
‘04'=Wrong number - new number available
‘05'=Not available
‘06'=Not in service/wrong number
‘07'=Refusal
‘08'=Communication problem
‘09'=Ineligible
‘10'=Successful Contact
‘11'=Fax/Computer

Variable Formats

Variable	Char/ Num	Field Length	Variable Description Name
INT_ID	Char	4	Interviewer ID
VSL_ID	Char	7	Vessel ID (randomly assigned survey-specific ID)
VSL_TYP	Char	1	Vessel type (indicated on the For-Hire directory)
SMP_WEEK	Char	2	Sampling Week
YEAR	Char	4	Sampling Year
WAVE	Char	1	MRFSS Sampling Wave
SUB_REG	Char	1	Subregion Code
ST	Char	2	State Code (FIPS Code)
DIALDATE	Char	8	Date of Vessel Representative Interview (Year/Mo/Day)
DIALTIME	Char	4	Time of Vessel Representative Interview (military time)
RESULT	Char	2	Result of the last phone attempt

Appendix P

RDD Quality Assurance Programs

NOAA Type 1 Card Processing

1. Run HOUSEGOOD.SAS

2. Run FINDPRVI.SAS

After Type 3 and Type 2 cards are ready,

3. Run TYPE1.SAS

4. Run CHKFREQ.SAS

5. Run CHK_INTS.SAS

6. Run CHKFSHR.SAS. You'll need this table in FNLFONE reconciliation.

AFTER OUTLIER PROCESSING IS COMPLETE,

7. Run TO_XPORT.SAS

FILENAME: HOUSGOOD.SAS

```
/*  NOAA    Checks Cxxx records for goodness - keeps the best.    S. Wilder    10/30/96  */
libname current '';
libname upone '..\..\tracking\data';
options ls=80 ps=59;
proc contents data=upone.vtw6hous;  run;
data chk;
 set upone.vtw6hous;
 length cpltime tottime 8 default=4;
 format goodness 1.;
 if q4 in (.,99) then goodness = 0;
 if q4 eq 2 then goodness = 1;
 if q4 eq 1 then goodness = 2;
 if ( (q6_1 gt 97)  or (q6 gt 97)  or (q8a gt 97) ) then goodness = 3;
 if ( (q6_1 eq 2)   or (q6 eq 2)   or (q8a eq 2) )  then goodness = 4;
 if ( (q6A_1 gt 0)  or (q6A gt 0)  or (q8a eq 1) )  then goodness = 5;
 if ( (q10_1 gt 97) or (q10 gt 97) or (q9 gt 97) )  then goodness = 6;
 if ( (q10_1 eq 2)  or (q10 eq 2)  or (q9 eq 2) )   then goodness = 7;
 if ( (q10A_1 gt 0) or (q10A gt 0) or (q9 eq 1) )   then goodness = 8;
 if goodness eq 0 then delete;  /* added 2/6/97 S.W. */
run;
proc sort data=chk;  by masterid descending goodness;  run;

data dups (keep = masterid case_id goodness);
  set chk;
  by masterid;
  if not (first.masterid and last.masterid);
run;
proc print data=dups;  title 'Household Records - Duplicate Master IDs';  run;
proc sort data=chk out=current.vtw6ho_2 nodupkey;  by masterid;  run;
title ;
proc contents data=current.vtw6ho_2;  run;
proc freq data=current.vtw6ho_2;  tables goodness;
run;
```

FILENAME: FINDPRVI.SAS

```
/*  NOAA Wave 6 2000 - Find PR and VI municipalities/islands      S. Wilder    01/05/2000  */
libname current '';
options ls=80 ps=59;
data current.prvicnty (keep = codenum st_res cnty_res realcnty);
  set current.vtw6ho_2;
  length codenum 8 cnty_res st_res 4;
  if q1 ne .;
  if q4 in (1,2);
  codenum = masterid;
  st_res = substr(fipscode,1,2);
  cnty_res = substr(fipscode,3,3);
  if st_res in (72,78);
  if st_res eq 72 then do;  /* PR */
     if prcnty ne . then realcnty = prcnty;
```

```
      else realcnty = 998;
  end;
  if st_res eq 78 then do;  /* VI */
     if vicnty ne . then realcnty = vicnty;
      else realcnty = 998;
  end;
run;
proc sort nodupkey data=current.prvicnty;  by codenum; run;
proc sort data=current.prvicnty;  by st_res; run;
proc freq data=current.prvicnty;
  by st_res;
  tables cnty_res realcnty;
run;
proc contents data=current.prvicnty;
proc sort nodupkey data=current.prvicnty;  by codenum; run;
```

FILENAME: TYPE1.SAS

```
/* NOAA Wave 6 2000
   Type 1 data processing.   Creates type 1 data household cards.
   This will end up with ALL households called not just the 2 month fishing
   households.  The last section of processing  delivers required type 1 data.
   R. McCormick */

options ls=80 ps=59;

/* Open directories where working files are stored */
libname current '';

/* read in CATI output from all studies */

data step0;
set current.vtw6ho_2;
keep
    MASTERID
    HH
    FIPSCODE
    PHONENUM
    REGION
    SUBREG
    Q1
    Q2
    Q3
    Q4
    Q5
    Q5A
    Q6
    Q6A
    q6_1
    q6a_1
    Q8
    q8a
```

```
   Q9
   Q10
   Q10A
   q10_1
   Q10A_1
   Q11
   PREATT     /* added 2/24/97 */

   realreg realsub realcnty coast
   fresh12 fresh2
;
if q1 ne .;
if q4 in (1,2);  /* a little more discrimination - added for 1997 wave 1 - S.W. */
run;

data current.step1 (drop = workdate);
SET STEP0;
FORMAT
reg_res   2.  MACROREG 1. ;

reg_res = SUBREG ;
MACROREG = REGION;

format codenum 8. cnty_res 3. st_res 2. workdate date1 $14. ff12 8.
      ph_800 8. tot_2mo 8. ;

  /*  date changed to character 12/10/96  S.W.  */
  if _n_ eq 1 then workdate = put(datetime(),datetime14.);
  retain workdate;
  date1 = substr(workdate,2,13);

codenum = masterid;
cnty_res = substr(fipscode,3,3);
st_res = substr(fipscode,1,2);

IF Q5=1 THEN TOT_HH= Q5A;
IF Q5A>1 THEN DO;
            IF Q6=1 THEN FF12= Q6A;
            IF Q6 ne 1 THEN FF12 = 0;
            IF Q10 NE 1 THEN TOT_2MO=0;
            IF Q10=1 THEN TOT_2MO=Q10A;
END;

IF Q5A=1 THEN DO;
            IF Q8A=1 THEN FF12=1; ELSE FF12=0;
            IF Q9=1 THEN TOT_2MO=1; ELSE TOT_2MO=0;
END;

IF (Q5 NE 1) THEN DO;
            IF (Q6_1=1) THEN FF12= Q6A_1;
            IF (Q6_1 ne 1) THEN FF12 = 0;
            IF (Q10_1 NE 1) THEN TOT_2MO=0;
            IF (Q10_1=1) THEN TOT_2MO=Q10A_1;
END;
```

```
OUTLIER=.;
output current.step1;
RUN;

proc sort data=current.step1 out=step2 nodupkey;  by codenum ;
run;

/* open the angler files in order to do the summaries of the
angler interviews */
libname type2 '..\type_2';
data step4A ;
set type2.fishreal type2.fishdumy;
run;
proc sort data=step4a nodupkey;  by codenum fshrnum;  run;

data step4;
 set step4a;
format    notint_o 8. notint_r 8. notint_u 8. num_int 8.  OUT_FF 8. ADJ_2MO 8.;

/* variable adj_2mo will adjust the number of 2 month anglers based on the
actual number of 2 month anglers determined from the interview */
ADJ_2MO=0;

/* next 5 statements are characterizing the type of interview and whether
it is an in/out of state */
IF INS4=3 AND (INS5=3 OR INS5=2) THEN NOTINT_O = 1; ELSE NOTINT_O=0;
IF INS4=2 THEN NOTINT_R = 1; ELSE NOTINT_R=0;
IF INS4=3 AND (INS5=1 OR INS5=4 OR INS5=5 or ins5=6) THEN NOTINT_U = 1; ELSE NOTINT_U=0;
IF (Q19=2) AND (Q20=1) THEN OUT_FF=1; ELSE OUT_FF=0;
IF INS4=1 THEN NUM_INT=1; ELSE NUM_INT=0;  /* MAY CHANGE BELOW ! ! */

/* WE FIND OUT LATER THE RESPONDENT IS ACTUALLY NOT A 2 MO ANGLER*/
IF Q19=2 AND Q20=2 THEN DO;
if st_res in (2,15,48) then put "ADJUSTING TX/HI/AK 1 " ST_RES CODENUM FSHRNUM;
ADJ_2MO=-1;
NUM_TRPS= 0;
NOTINT_O=0;
NOTINT_U=0;
NUM_INT=0;
NOTINT_R=0;
END;

IF Q19=2 AND Q20>97 THEN DO;
if st_res in (2,15,48) then put "ADJUSTING TX/HI/AK 2 " ST_RES CODENUM FSHRNUM;
ADJ_2MO=-1;
NUM_TRPS= . ;
NOTINT_O=0;
NOTINT_U=0;
NUM_INT=0;
NOTINT_R=1;
END;

IF Q19>97 AND Q20=2 THEN DO;
if st_res in (2,15,48) then put "ADJUSTING TX/HI/AK 3 " ST_RES CODENUM FSHRNUM;
```

```
ADJ_2MO=-1;
NUM_TRPS= . ;
NOTINT_O=0;
NOTINT_U=0;
NUM_INT=0;
NOTINT_R=1;
END;

IF Q19>97 AND Q20>97 THEN DO;
if st_res in (2,15,48) then put "ADJUSTING TX/HI/AK 4 " ST_RES CODENUM FSHRNUM;
NUM_TRPS= . ;
NOTINT_O=0;
NOTINT_U=0;
NUM_INT=0;
NOTINT_R=1;
END;

/*THE FOLLOWING ADJUSTS THE INTERVIEW TYPES AND TOT_2MO BECAUSE OF
CHANGES IN THE TRIP FILE */
IF NTRPLESS>0 AND NUM_TRPS=0 THEN DO;
if st_res in (2,15,48) then put "ADJUSTING TX/HI/AK 5 " ST_RES CODENUM FSHRNUM;
ADJ_2MO=-1;
NOINT_O=0;
NOTINT_U=0;
NUM_INT=0;
NOTINT_R=0;
END;
RUN;

PROC SORT ; BY CODENUM ;

/* summarize all the types of interviews by household - see type 2 cards
SAS program */
PROC MEANS NOPRINT;
  BY CODENUM ;
  ID MASTERID PHONENUM REG_RES MACROREG  CNTY_RES ST_RES DATE1 Q1 Q3 Q4
  realcnty realreg realsub coast subreg;
  VAR NOTINT_O NOTINT_R NOTINT_U OUT_FF NUM_INT ADJ_2MO;
  OUTPUT OUT=STEP5
  SUM=NOTINT_O NOTINT_R NOTINT_U OUT_FF NUM_INT ADJ_2MO;
run;

proc print data=step5;
where codenum in (29683,467094);
title 'Step5';
run;

/* bring together household data with angler interview summary */
data step6;
   merge STEP2 STEP5 ;
   by CODENUM ;
format   notint_f 8. FF2 8.;

/* make adjustments to 2 month angler counts tot_2mo based on interviews */
```

```
IF ABS(ADJ_2MO)>TOT_2MO THEN TOT_2MO=0; ELSE TOT_2MO=TOT_2MO +  ADJ_2MO;
IF  TOT_2MO < (NOTINT_O + NOTINT_R + NOTINT_U + NUM_INT)  THEN DO;
            TOT_2MO = (NOTINT_O + NOTINT_R + NOTINT_U + NUM_INT);
            IF FF12<TOT_2MO THEN FF12=TOT_2MO;
            IF TOT_HH<FF12 THEN TOT_HH=FF12;
END;
IF (TOT_2MO < OUT_FF)  THEN TOT_2MO=OUT_FF;

FF2 = TOT_2MO - OUT_FF;
NOTINT_F = TOT_2MO - NOTINT_O - NOTINT_R - NOTINT_U - NUM_INT;

PHONENUM =substr(phonenum,1,6)||"0000";
wave = 6;  year = 2000;  ph_800 = 2.;

/*SAN LUIS OBISPO CORRECTION*/
IF (CNTY_RES EQ "79") AND (ST_RES EQ "6") THEN REG_RES=2;

/* FOR ANGLER HOUSEHOLDS LOST TO SYSTEM CRASHES */
IF FF12=. THEN FF12=TOT_2MO;  /*ACTUAL NUMBER LOST*/
run;

/* add in records interviewer terminated early because non-fishing HH */
data  step7 (drop= _freq_ _type_ );
set step6 ; /*dispo16;*/
  /*  date changed to character 12/10/96  S.W.  */
  if _n_ eq 1 then workdate = put(datetime(),datetime14.);
  retain workdate;
  date1 = substr(workdate,2,13);
run;

proc sort data=step7 out=current.type1_D nodupkey; by codenum;

/*  Get date released from MSTRSAM and location code - added 9/13/99 */

libname fnlfon dbpdox 'j:\mmr\data\noaa\wave600\tracking';
data relsed (keep = codenum rel_date facility);
  set fnlfon.fnlfone;
  format rel_date $8.;
  rel_date = put(year(date_rel),z4.) || put(month(date_rel),z2.) ||  put(day(date_rel),z2.) ;
run;
proc sort data=relsed nodupkey;  by codenum;  run;

data current.type1_d;
   merge current.type1_d (in=indat) relsed;
   by codenum;
   if indat;
run;

/*  end of 9/13/99 addition */

/*  get PR and VI "counties"  1/5/2000 */
proc sort data=current.type1_d nodupkey;  by codenum;  run;
proc sort data=current.prvicnty nodupkey;  by codenum;  run;
data current.type1_d;
```

```
  merge current.type1_d (in=indat) current.prvicnty (in=pr);
  by codenum;
  if indat;
  if ( (not pr) and (st_res in (72,78)) )
    then realcnty = "998";
if realreg eq 1 and realsub eq 4 then reg_res = 10;   /* Alaska to 10 */
if st_res in (72,78) then reg_res = 11;   /* PR/VI to 11 */
IF (CNTY_RES EQ "79") AND (ST_RES EQ "6") THEN REG_RES=2;

run;

proc freq; table reg_res q1 q3 q4 st_res ff12 num_int tot_2mo wave year
notint_u notint_f rel_date;

data current.t1_20006 (keep=CNTY_RES CODENUM DATE1 FF2 FF12 NOTINT_F NOTINT_O
            NOTINT_R NOTINT_U NUM_INT OUTLIER OUT_FF PHONENUM PH_800 REG_RES
      ST_RES TOT_2MO WAVE YEAR TOT_HH fresh12 fresh2 rel_date) ;   /* 24 VARS*/

 /*  length statement added 12/10/96   S.W.  */
 length cnty_res codenum ff2 ff12 notint_f notint_o notint_r notint_u
       num_int outlier out_ff ph_800 reg_res st_res tot_2mo tot_hh
       wave year fresh12 fresh2 8;

set current.type1_d;

/* 1996 Wave 6 q1 = 98 (DK) now acceptable */
if q1 in (1,98) and q3=1 and q4=1 and tot_2mo>0;

/*   update reg_res and cnty_res to real values */
reg_res = realsub;
cnty_res = realcnty;
if realreg eq 1 and realsub eq 4 then reg_res = 10;   /* Alaska to 10 */
if st_res in (72,78) then reg_res = 11;   /* PR/VI to 11 */
IF (CNTY_RES EQ "79") AND (ST_RES EQ "6") THEN REG_RES=2;

LABEL
 DATE1    = 'DATE DATASET CREATED'
 REG_RES  = 'REGION OF RESIDENCE'
 WAVE     = 'WAVE'
 YEAR     = 'SURVEY YEAR'
 CODENUM  = 'HOUSEHOLD ID'
 ST_RES   = 'STATE OF RESIDENCE'
 CNTY_RES = 'COUNTY OF RESIDENCE'
 FF12     = 'NUM. OF 12MON.FSHMN  INSTATE'
 NUM_INT  = 'NUM. 2MO. FSHMN INSTATE'
 NOTINT_R = 'ANGLERS REFUSING TO GIVE DATA  INSTATE '
 NOTINT_U = 'ANGLERS W/PROXY DATA INCL INSTATE '
 NOTINT_O = 'CHILDREN/OTHER LANG. W/PROXY INSTATE '
 NOTINT_F = 'NEVER INT. NO PROXY DATA INCL INSTATE'
 PHONENUM = 'PHONE NUMBER OF HH'
 FF2      = 'NUMBER OF 2 MONTH ANGLERS IN STATE ONLY'
 OUTLIER  = 'OUTLIER VARIFIED OR NOT'
 OUT_FF   = 'NUMBER OF 2 MONTH OUT OF STATE ANGLERS'
 TOT_2MO  = 'TOTAL IN STATE AND OUT OF STATE ANGLERS'
```

```
 TOT_HH   = 'TOTAL PEOPLE IN HH(FISHING AND NONFISHING)'
 fresh12  = 'ANY FRESHWATER FISHING IN PAST 12 MONTHS'
 fresh2   = 'ANY FRESHWATER FISHING IN PAST 2 MONTHS'
 rel_date = 'DATE RECORD RELEASED FOR CALLING'
/* facility = 'CALLROOM CODE'*/
 ;
RUN;

/*  bring in PR/VI subsistence questions   1/14/2000 */

proc sort data=current.t1_20006; by codenum; run;
proc sort data=type2.t11data nodupkey;  by codenum;  run;

data current.t1_20006;
  length commerce 8;
  merge current.t1_20006 (in=in2mo)
  type2.t11data (in=pr keep=codenum commerce subsist);
  by codenum;
  if in2mo;
run;

proc datasets library=current;    /* added 12/10/96   S.W.  */
  modify t1_20006;
  length commerce 8 ;
  format cnty_res codenum date1 ff2 ff12 notint_f notint_o notint_r notint_u
        num_int outlier out_ff phonenum ph_800 reg_res st_res tot_2mo tot_hh
        wave year fresh12 fresh2 rel_date commerce subsist;
run;

proc contents;
proc freq; tables
CNTY_RES DATE1 FF2 FF12 NOTINT_F NOTINT_O
             NOTINT_R NOTINT_U NUM_INT OUTLIER OUT_FF PH_800 REG_RES
       ST_RES TOT_2MO WAVE YEAR TOT_HH fresh12 fresh2
       rel_date
       ;   /*21 VARS*/
 tables st_res * (commerce subsist) / list;
run;
ENDSAS;
```

FILENAME: CHKFREQ.SAS

```
libname current '';
options ps=58 ls=80;
data chk (drop = codenum);
  set current.t3_20006;
run;
proc freq data=chk;
  title 'NOAA 2000 Wave 6 - TYPE 3 (TRIP) CARDS';
run;
proc contents data=current.t3_20006;
run;
```

FILENAME: CHK_INTS.SAS

```
/*  does sum of nonint_* and num_int    S. Wilder 9/10/96   */
libname current '';
libname fshr '..\type_2';
options ls=80 ps=59;
footnote 'J:\MMR\DATA\NOAA\wave600\PPROCESS\TYPE_1\CHK_INTS.SAS';
proc summary data=current.t1_20006;
  var num_int notint_o notint_r notint_u notint_f;
  output out=sum1 sum = sum_int sum_o sum_r sum_u sum_f;
run;
proc print data=sum1;  run;
data chk2 (keep = codenum fshr_int);
 set current.t1_20006;
 fshr_int = sum(num_int,notint_o,notint_u);
run;
proc sort;  by codenum;  run;

data fshchk1;
  set fshr.t2_20006;
run;
proc sort data=fshchk1;  by codenum fshrnum;  run;
proc summary data=fshchk1;
   by codenum;
   output out=fshchk2;
run;
proc sort data=fshchk2;  by codenum;  run;

data seeit (drop = _type_);
  merge chk2 fshchk2;
  by codenum;
  if _freq_ eq . then _freq_ = 0;
  if fshr_int ne _freq_ then output;
run;
proc print data=seeit;  run;
proc sort data=seeit;  by codenum;  run;

data fshchk2;
  set fshr.fishreal fshr.fishdumy;
run;
proc sort data=fshchk2;  by codenum fshrnum;  run;

data t2;
   merge fshchk2 seeit (in=wrong);
   by codenum;
   if wrong;
run;
proc print data=t2;
run;
```

FILENAME: CHKFSHR.SAS

```
libname current '';
options ls=80 ps=59;
libname currpdox dbpdox 'j:\mmr\data\noaa\wave600\pprocess\type_1';
data currpdox.t1dcats (keep = masterid codenum category fonecat);
format masterid $8. category $10. datacat $20.;
set current.type1_d;
category = 'NON-FISH';
if q4 eq 1 then category = 'OTHER FISH';
if ff12 gt 0 then category = '12 MO FISH';
if tot_2mo gt 0 then category = '02 MO FISH';
run;
```

FILENAME: TO_XPORT.SAS

```
/*  NOAA Project    Makes SAS TRANSPORT data set from t1_yyyyw.SD2 data set
    for transmittal to NOAA.    S. Wilder     11/14/96  */

libname current '';
libname trans xport '..\xported\t3_20006.xpt';
proc copy in=current out=trans;
  select t3_20006 / memtype=data;
run;
```

FILENAME: MAKE_OUT.SAS

```
/*  makes outliers data set from data sets supplied by NOAA    S. Wilder    3/15/97  */
options ls=80 ps=59;
libname current '';
libname thar1 'j:\mmr\data\noaa\outlie00\ag';
libname thar2 'j:\mmr\data\noaa\outlie00\pc';

data one (keep = st_res reg_res p95 wave mode_fx);
   set thar1.dist006;
run;

data two (keep = st_res reg_res p95 wave mode_fx);
   set thar2.dist006;
run;

data both (drop = mode_fx);
  set one two;
  format pctlfx $5.;

  pctlfx = 'pctl' || mode_fx;
run;

proc sort data=both;  by st_res reg_res wave pctlfx;  run;

proc transpose data=both out=current.w6pctl95 (drop = _name_);
```

```
  by st_res reg_res wave;
  id pctlfx;
  var p95;
run;

proc print noobs;
 title 'Before Force to 12 Trips';
 var wave st_res reg_res pctl3 pctl4 pctl5 pctl6 pctl7;
run;

/*  force missing charter (mode_fx 5) and party/charter (mode_fx 6) to 12 -
    also charter and party/charter gt 12 force to 12 -     added 3/15/98  */

data current.w6pctl95;
  set current.w6pctl95;
  if ( (reg_res in (6,7)) and (pctl5 eq .) ) then pctl5 = 12;
  if ( (reg_res in (6,7)) and (pctl5 gt 12) ) then pctl5 = 12;
  if ( (reg_res in (1,2,3,4,5)) and (pctl6 eq .) ) then pctl6 = 12;
  if ( (reg_res in (1,2,3,4,5)) and (pctl6 gt 12) ) then pctl6 = 12;
run;

proc print noobs;
 title 'After Force to 12 Trips';
 var wave st_res reg_res pctl3 pctl4 pctl5 pctl6 pctl7;
run;  endsas;

-------------------------------------------------------------------------------------------

FILENAME: OUT_HH.SAS

/*  NOAA Wave 6 2000
    Calculates number of outliers  PER HOUSEHOLD, not per fisher
    and writes Paradox table of corresponding master IDs.
    Will use Paradox query to fill in phone numbers and states.
    S. Wilder    12/16/96  */
options ls=80;
libname current '';
libname currpdox dbpdox 'j:\mmr\data\noaa\wave600\pprocess\outliers';
libname type3 '..\fishstuf';

data outs;
  format modefx $5. count 8.;
  set type3.t3_20006;
  if mode_fx in (1,2) then mode_fx = '3';
  if compress(mode_fx) in ('3','4','5','6','7');
  modefx = 'mode' || compress(mode_fx);
  count = 1;
  wave = 6; /* Hard coding of wave in fishstuff is a PROBLEM! */
run;

proc sort;  by codenum wave modefx;  run;
proc summary data=outs;
   by codenum wave;
   id st_res reg_res;
```

```
   class modefx;
   var count;
   output out=outmean1 sum = ;
run;

data outmean1 (drop = _type_ _freq_);
  set outmean1;
  if _type_ ne 0;
run;
proc sort data=outmean1;  by codenum st_res reg_res modefx;  run;
proc transpose data=outmean1 out=outmean2 (drop = _name_);
  by codenum st_res reg_res wave;
  id modefx;
  var count;
run;
proc sort data=outmean2;  by st_res reg_res wave;  run;
proc sort data=current.w6pctl95;  by st_res reg_res wave;  run;

data both;
  merge outmean2 (in=data) current.w6pctl95;
  by st_res reg_res wave;
  if data;
run;

data check (drop = i flag);
  set both;
  array counts {*} mode3 mode4 mode5 mode6 mode7;
  array checks {*} pctl3 pctl4 pctl5 pctl6 pctl7;
  flag = 'N';
  do i = 1 to dim(counts);
     if checks(i) ne . then do;
        if counts(i) gt checks(i) then flag = 'Y';
     end;
  end;
  if flag eq 'Y' then output;
run;
proc sort nodupkey out=current.out_hh;  by codenum;  run;
proc print data=current.out_hh;
title '2000 Wave 6 Outliers by Household';
 var codenum mode3 pctl3 mode4 pctl4 mode5 pctl5 mode6 pctl6 mode7 pctl7;
run;

data currpdox.out_nums (keep = masterid);
  set current.out_hh;
  format masterid $8.;
  masterid = put(codenum,z8.);
run;
```

FILENAME: T1_OUT.SAS

```
options ls=80 ps=60;
/*  Updates T1 data with outlier recontact info
    from Paradox table
```

```
   NOAA 2000 Wave 6
   S. Wilder
   1/14/97  */

libname current '';
libname currpdox dbpdox 'j:\mmr\data\noaa\wave600\pprocess\outliers';
libname t1cards '..\type_1';

data current.fnlout (keep = codenum outlier);
  set currpdox.outliers;
  format codenum outlier 8.;
  outcome = upcase(outcome);
  if outcome eq "V" then outcome = '1';
  if outcome ne '1' then outcome = '2';
  codenum = masterid;
  outlier = outcome;
  if codenum lt 1 then delete;
run;
proc sort nodupkey data=current.fnlout;  by codenum;  run;
proc datasets library=current;
  modify fnlout;
  format codenum outlier ;
run;
proc contents; run;
proc freq;
title 'NOAA 2000 Wave 6 Outlier Recontact Frequency';
title2 '1 = Contacted     2 = Not Contacted';
tables outlier;
run;
proc sort data=t1cards.t1_20006;  by codenum;  run;

data t1cards.t1_20006;
  merge t1cards.t1_20006 (in=card) current.fnlout;
  by codenum;
  if card;
  if rel_date='20000621' then rel_date='20000624';
run;
proc contents data=t1cards.t1_20006;  run;
proc freq data=t1cards.t1_20006;
title 'NOAA 2000 Wave 6 Type 1 Cards - Outlier Recontact Frequency';
title2 '1 = Contacted     2 = Not Contacted';
tables outlier;
run;

-------------------------------------------------------------------------------------------
```

NOAA Type 2 Card Processing

After Type 3 cards have been made and the FNLFONE Paradox table
is up to date,
1. Run GETINTVR.SAS
2. Run TYPE2.SAS

FILENAME: GETINTVR.SAS

```
/*  Gets last interviewer id for each masterid */

options linesize=80  pagesize=59 ;

libname current '';
libname intervr dbpdox 'j:\mmr\data\noaa\wave600\tracking';

data  current.intvuer
    (keep = masterid date_int fintvr intvuer codenum study fsdate fstime) ;
  set intervr.fnlfone;

  format intvuer 8.;
  if fintvr IN ("AGER","ANIC","DBUS","DBSH","EMER") then intvuer=101;
    else if fintvr IN ("LEE","SRVR"," ","DBUG","BKOK") then intvuer=109;
    else if fintvr eq "JEN" then intvuer = 159;
    else if substr(fintvr,1,1)='A' then intvuer = 2000 + substr(fintvr,2,3);
    else if substr(fintvr,4,1)='S' then intvuer = 4000 + substr(fintvr,1,3);
    else if substr(fintvr,4,1)='P' then intvuer = 6000 + substr(fintvr,1,3);
    else if substr(fintvr,4,1)='N' then intvuer = 8000 + substr(fintvr,1,3);
    else if substr(fintvr,1,1)='D' then intvuer = 2000 + substr(fintvr,2,3);
    else if substr(fintvr,1,1)='T' then intvuer = 1000 + substr(fintvr,2,3);
    else if substr(fintvr,1,2)='NE' then intvuer = 1100 + substr(fintvr,3,2);
    else intvuer=fintvr;
  date_int=fsdate;
run;

proc freq data=current.intvuer;
tables date_int intvuer*fintvr / missing list nocum;
run;
proc freq data=current.intvuer;
where fintvr='';
tables  study*fsdate*date_int / missing list nocum;
run;
proc sort data=current.intvuer;  by codenum;
run;  endsas;
```

FILENAME: TYPE2.SAS

```
/*  NOAA Wave 6 2000,  TYPE 2 CARDS WITH ADJUSTMENTS FROM THE TYPE 3 CARDS
            -rvm
   Mod 2/4/98 to output zero trip fishers into permanent data set 'ZEROTRPS'.   */

options ls=80 ps=59;
```

```
/* Open directories where working files are stored */
libname current '';
libname fishstuf 'j:\mmr\data\noaa\wave600\pprocess\fishstuf';
libname recons   'j:\mmr\data\noaa\wave600\pprocess\recontct';
libname t1data '..\type_1';

/* read in all the interviewing studies for the wave  */
data step0;             /* ------------------------------------------------- */
length rm_1 8 ;
set  fishstuf.vtw6fi_2;
KEEP
PHONENUM
MASTERID
FIPSCODE
SUBREG
REGION
FTIMESX
/*  today_a */
tdate
INS4
INS4A
INS5
Q19
Q19A
Q20
Q20A
TOG
CONT77
resp77a
LANGUAGE

var1 rm_1 rm_2 rm_3 rm_3_r rm_3a rmcnty_a rm_4 rm_4_r rm_4a rmcnty_b
rm_5 rm_5_r rm_5a rmcnty_c tripup
realreg realsub coast realcnty

commerce commer_r subsist1 subsist2
;

run;  /* ------------------------------------------------- */

/*  now get the recontact fishers and put in the real fishernum  */

proc sort data=recons.ftcreco1;  by masterid segment;  run;
proc sort data=recons.fishnum;   by masterid segment;  run;

data step00;
  merge recons.ftcreco1 (in=data) recons.fishnum (in=num);
  by masterid segment;
  if data;
  if not num then put 'NO FISHER NUMBER' masterid segment;
  ftimesx = fshrnum;
  if ( (ins4 eq .) and (ins4a eq .) and (ins5 eq .) ) then ins4 = 1;
  /* in the recontact study we speak only to the specified fisherman
     unless otherwise recorded */
```

```
  KEEP
  PHONENUM
  MASTERID
  FIPSCODE
  SUBREG
  REGION
  FTIMESX
/*  today_a */
tdate
  INS4
  INS4A
  INS5
  Q19
  Q19A
  Q20
  Q20A
  TOG
  CONT77
  resp77a
  LANGUAGE

var1 rm_1 rm_2 rm_3 rm_3_r rm_3a rmcnty_a rm_4 rm_4_r rm_4a rmcnty_b
rm_5 rm_5_r rm_5a rmcnty_c tripup
realreg realsub coast realcnty

commerce commer_r subsist1 subsist2
  ;
run;

/* the two data sets are brought together */
data step1 (drop = workdate);
set step0
   step00;
run;

/*  now get cont77 for reason code 4 - no longer stored centrally  5/14/97 */
/*  skip reason code 4 processing - again stored centrally  4/29/98

proc sort data=step1;  by masterid ftimesx;  run;

data c774 (keep = masterid ftimesx cont77);
 set fishstuf.cont774;
 if cont77 eq 4;
 format masterid $8.;
 masterid = put(codenum,z8.);
 ftimesx = fshrnum;
run;

proc sort nodupkey data=c774;  by masterid ftimesx;  run;

...   end of skipped processing */

/* required variables are computed*/
```

```
data step1;
  set step1;
/*
  merge step1 (in=data) c774 (in=cont4);
  by masterid ftimesx;
  if data;
*/
format codenum 8. cnty_res 3. st_res 2. sw_tourn 1. num_trps 8.
      dayint $2. moint $3. date1 workdate $14. two_mon  1. RSP_77 1. source 1.;
FORMAT reg_res 2. macroreg 1. fshrnum 2. todayis $4. lang 1. ;

/*rename variables*/
reg_res =subREG;
macroreg = REGION;
fshrnum  = FTIMESX;
todayis = TODAY;
lang = LANGUAGE;

st_res = substr(fipscode,1,2);
cnty_res = substr(fipscode,3,3);


/* Texas, Alaska, Hawaii adjustment    4/15/98
if st_res in (2,15,48) then do;
   if q19a gt 0 then do;
      q19a = .;
      q19 = 2;
      if q20 in (2,98,99) then q20a = .;
   end;
   if q20a gt 0 then tog = q20a;
   else tog = 0;
end;
*/

/* Texas, Alaska, Hawaii adjustment - non-fisher if instate only   5/14/98  */
if ( (st_res in (2,15,48)) and (q20 in (2,98,99)) ) then do;
   q19 = 2;
   q19a = .;
   tog = 0;  /*   tog skipped if TX/AK/HI and no out-of-state trips */
end;

NUM_TRPS = tog;

IF NUM_TRPS=. THEN ins4=2;

if ins4=. then ins4=ins4a;
if ins4=. and fshrnum=1 then ins4=1;
source=ins4;
if source eq 2 then source = 3;
else if source eq 3 then source = 2;

codenum=masterid;

wave = 6;  year = 2000;  sw_tourn = .;
```

```
/*SAN LUIS OBISPO CORRECTION*/
IF (CNTY_RES EQ "79") AND (ST_RES EQ "6") THEN REG_RES=2;

RSP_77 = sum(CONT77,resp77a);

two_mon = sum(CONT77,resp77a);
if two_mon in (1,2,3) then two_mon = 2;
else two_mon = 1;

/*  date changed to numeric 12/10/96   S.W.  */
if _n_ eq 1 then workdate = put(datetime(),datetime14.);
retain workdate;
date1 = substr(workdate,2,13);

format dat_int1 $8.;
*   varibale changed todayis=put(today_a+1,z4.);
todayis=put(tdate,z4.);
if todayis ne ' ' then dat_int1 = "2001" || todayis;
if substr(dat_int1,5,2) eq 12 then dat_int1 = "2000" || todayis;

/* IN CASE THE HOUSEHOLD CARD WAS LOST DUE TO SYSTEM CRASH */
Q1=1; Q3=1; Q4=1;

run;


/* dumptrip is a file for anglers whose trips were determined later not to
be eligible 2 mo trips   */
proc sort data= fishstuf.dumptrip out=trip_adj nodupkey;  by codenum fshrnum;  run;

/* summary counts for the number of trips is determined  */
PROC MEANS data=trip_adj NOPRINT;
  BY codenum fshrnum;
  VAR reason;
  OUTPUT OUT=trip_adj
  N=ntrpless;    /*  the count of the number less trips that occurred */

proc sort data=step1 out=nearlast nodupkey;  by codenum fshrnum;  run;

/* bring together all the anglers with the adjustments from the trip file
  BOTH DECREASES TRIP_ADJ AND INCREASES WITH TOOMANY */
data nxt2last;
  length rm_days 8.;   /* added 7/12/2000 due to strange problem with var1 */
          merge nearlast (IN=NEAR) trip_adj   fishstuf.toomany;
          by codenum fshrnum;
  IF NEAR;  /* ADDED 3/10/97 */

/* TOOMANY HAS VARS = CODENUM FSHRNUM ORITRIPS _TYPE_ _FREQ_ INSTATE
  OUTSTATE DKSTATE ACTCOUNT */
manytrp=sum(instate,outstate,dkstate);

/* the adjustments to the number of trips for those who have adjustments */
          IF (MANYTRP>NUM_TRPS) THEN DO;
```

```
                NUM_TRPS=MANYTRP;
                IF Q20=1 AND OUTSTATE>Q20A THEN Q20A=OUTSTATE;
        END;

        if NUM_TRPS >0 and ntrpless>0 and ntrpless<=NUM_TRPS  then
                NUM_TRPS = NUM_TRPS - ntrpless;              /* NUM TRIPS FIX*/

        if NUM_TRPS >0 and ntrpless>0 and ntrpless>NUM_TRPS  then
                NUM_TRPS = 0;                        /* NUM TRIPS FIX*/

        IF (Q19=2) AND (Q20=1) and NUM_TRPS=0 THEN Q20=2;      /* NUM TRIPS FIX*/

IF NUM_TRPS>62 THEN  NUM_TRPS=62;

/*  remaining days/modes/states/counties - added 4/30/98 */
if var1='**' then var1='  ';  /* added 7/12/2000 due to asterisks entered in var1 */
if rm_1 eq 1 then rm_days = var1;      /* number of days */
 else if rm_1 eq 2 then rm_days = rm_2 - tripup;  /* was just rm_2 until 12/21/98 */
 if ( -999 < rm_days < 0) then rm_days = 0;   /* added 12/21/98 - in case subtraction goes negative */

rm_pc = rm_3_r;                /* party/charter */
if rm_3 eq 98 then rm_pc = 98;
else if rm_3 eq 99 then rm_pc = 99;
rm_pcst = rm_3a;
if rm_pcst eq 55 then rm_pcst = 97;   /* other state (fips 55 is Wisconsin) */
rm_pccty = rmcnty_a;

rm_pr = rm_4_r;                /* private/rental */
if rm_4 eq 98 then rm_pr = 98;
else if rm_4 eq 99 then rm_pr = 99;
rm_prst = rm_4a;
if rm_prst eq 55 then rm_prst = 97;   /* other state */
rm_prcty = rmcnty_b;

rm_sh = rm_5_r;                /* shore */
if rm_5 eq 98 then rm_sh = 98;
else if rm_5 eq 99 then rm_sh = 99;
rm_shst = rm_5a;
if rm_shst eq 55 then rm_shst = 97;   /* other state */
rm_shcty = rmcnty_c;

/* following added 7/13/98 */
if rm_1 eq 3 then do;  /* refused - so make sure responses are blank */
  rm_days = .;
  rm_pc = .;
  rm_pcst = .;
  rm_pccty = .;
  rm_pr = .;
  rm_prst = .;
  rm_prcty = .;
  rm_sh = .;
  rm_shst = .;
  rm_shcty = .;
end;
```

```
/* following added 12/21/98 */
if rm_days eq 0 then do;  /* zero days left - so make sure responses are blank */
  rm_pc = .;
  rm_pcst = .;
  rm_pccty = .;
  rm_pr = .;
  rm_prst = .;
  rm_prcty = .;
  rm_sh = .;
  rm_shst = .;
  rm_shcty = .;
end;

run;

proc sort data=nxt2last;  by codenum fshrnum;  run;

/* the file intvuer has the interviewer who conducted the interview*/
/* the file allsame has all the household for which all trips were done
by all anglers*/
data LAST;
  format date_int $8.;
          merge nxt2last (in=nxt2) current.intvuer fishstuf.allsame;
          by codenum ;
  if nxt2;
          if dat_int1  ne ' ' then date_int = dat_int1;
run;

/* fishreal file are those anglers for whom dummy cards are not being created*/
proc sort data=LAST out=current.fishreal nodupkey;  by codenum fshrnum;  run;

/*fishdumy are the dummy data of those n-1 anglers for whom the trips were all
the same*/
data current.fishdumy;
 set last;
 drop n;
if allsame=1 then do;   /*  loop to output dummy cards for those all taking the same trip*/
  holdnum = fshrnum;
  do n=1 to numfishr - 1;
          FSHRNUM=n + holdnum;
  if ins4 eq 2 then do;
    ins5=6;
    source=3;
  end;
  else do;
          ins4=3 ; ins5=6; /* a dummy variable indicating the interview was a duplicated & proxy*/
    source=2;
  end;
          output;
          end;
end;
if not (ins5=6) then delete;
run;
```

```
/* processing of fishreal and fishdumy below are required for delivery of the
type 2 cards*/


data fishall;
  set current.fishreal current.fishdumy;
run;

/*  merge in the PR/VI "county" info   1/5/2000 */
proc sort nodupkey data=fishall;  by codenum fshrnum;  run;
proc sort nodupkey data=t1data.prvicnty;  by codenum;  run;
data fishall (drop = prcnty);
  merge fishall (in=fa) t1data.prvicnty (in=pr rename=(realcnty=prcnty));
  by codenum;
  if fa;
  if st_res in (72,78) then realcnty=prcnty;
  if ( (not pr) and (st_res in (72,78)) ) then realcnty = 998;
run;

data current.t2_20006 (keep= CNTY_RES CODENUM DATE1 DATE_INT FSHRNUM INTVUER
                     LANG NUM_TRPS REG_RES SOURCE ST_RES SW_TOURN
                     TWO_MON RSP_77 WAVE YEAR
                     rm_1
                     rm_days rm_pc rm_pcst rm_pccty rm_pr rm_prst
                     rm_prcty rm_sh rm_shst rm_shcty)
    current.zerotrps
    current.t11data (keep = codenum st_res cnty_res reg_res date1 wave year
                  commerce subsist)
    ;

set fishall;

cnty_res = realcnty;    /*  added 5/18/98  */
reg_res = realsub;
if realreg eq 1 and realsub eq 4 then reg_res = 10;   /*  Alaska  */
if st_res in (72,78) then reg_res = 11;
IF (CNTY_RES EQ "79") AND (ST_RES EQ "6") THEN REG_RES=2;


/* PR/VI additional questions added 1/6/2000  S.W.  */
if st_res in (72,78) and fshrnum eq 1 then do;
  if ( (commerce eq 1) and (commer_r ne . ) )
    then commerce = commer_r;
  subsist = sum(subsist1,subsist2);
  if ( (rsp_77 ne 2) and (commerce eq .) ) then commerce = 98;
  if ( (rsp_77 ne 2) and (subsist eq .) )  then subsist  = 98;
  output current.t11data;
end;

if num_trps lt 1 then do;
   output current.zerotrps;
   RETURN;
end;
```

```
IF INTVUER=. THEN INTVUER=109;

LABEL
 DATE1    = 'DATE DATASET CREATED'
 REG_RES  = 'REGION OF RESIDENCE'
 WAVE     = 'WAVE'
 YEAR     = 'SURVEY YEAR'
 CODENUM  = 'HOUSEHOLD ID'
 ST_RES   = 'STATE OF RESIDENCE'
 CNTY_RES = 'COUNTY OF RESIDENCE'
 FSHRNUM  = 'FISHERMAN NUMBER'
 DATE_INT = 'DATE OF INTERVIEW'
 INTVUER  = 'INTERVIEWER ID'
 SOURCE   = 'INFORMATION PROVIDED BY'
 LANG     = 'LANGUAGE OF INTERVIEW'
 TWO_MON  = '2 MONTH INFO. (YES/NO)'
 NUM_TRPS = 'NUMBER OF TRIPS'
 OUTLIER  = 'OUTLIER VARIFIED OR NOT'
 RM_DAYS  = 'NUMBER OF REMAINING DAYS'
 RM_PC    = 'NO. OF REMAINING PARTY/CHARTER TRIPS'
 RM_PCST  = 'REMAINING PARTY/CHARTER STATE'
 RM_PCCTY = 'REMAINING PARTY/CHARTER COUNTY'
 RM_PR    = 'NO. OF REMAINING PRIVATE/RENTAL TRIPS'
 RM_PRST  = 'REMAINING PRIVATE/RENTAL STATE'
 RM_PRCTY = 'REMAINING PRIVATE/RENTAL COUNTY'
 RM_SH    = 'NO. OF REMAINING SHORE TRIPS'
 RM_SHST  = 'REMAINING SHORE STATE'
 RM_SHCTY = 'REMAINING SHORE COUNTY'
 RM_1     = 'WAS REMAINING DAYS CHANGED?'
 commerce = 'NO. OF COMMERCIAL FISHERMEN IN HHOLD'
 subsist  = 'RECREATION V. SUBSISTENCE FISHING'
    ;

OUTPUT CURRENT.t2_20006;


RUN;

proc sort nodupkey data=current.t11data;  by codenum;  run;
proc datasets library=current;   /* added 1/6/2000   S.W.  */
  modify t11data;
  format codenum st_res cnty_res reg_res date1 wave year commerce subsist;
LABEL
  DATE1    = 'DATE DATASET CREATED'
  REG_RES  = 'REGION OF RESIDENCE'
  WAVE     = 'WAVE'
  YEAR     = 'SURVEY YEAR'
  CODENUM  = 'HOUSEHOLD ID'
  ST_RES   = 'STATE OF RESIDENCE'
  CNTY_RES = 'COUNTY OF RESIDENCE'
  commerce = 'NO. OF COMMERCIAL FISHERMEN IN HHOLD'
  subsist  = 'RECREATION V. SUBSISTENCE FISHING'
  ;
run;
```

```
proc contents data=current.t11data; run;
proc freq data=current.t11data;
  title 'NOAA 1999 Wave 6 Type 11 Cards';
  tables st_res cnty_res reg_res date1 wave year commerce subsist;
run;

proc sort nodupkey data=current.t2_20006;  by codenum fshrnum;  run;

proc datasets library=current;   /* added 12/10/96   S.W.  */
  modify t2_20006;

  format cnty_res codenum date1 date_int fshrnum intvuer lang num_trps
        reg_res rsp_77 source st_res sw_tourn two_mon wave year
        rm_1
        rm_days rm_pc rm_pcst rm_pccty rm_pr rm_prst
        rm_prcty rm_sh rm_shst rm_shcty;
run;

PROC FREQ data=current.t2_20006;
tables CNTY_RES DATE1 DATE_INT FSHRNUM INTVUER LANG NUM_TRPS REG_RES SOURCE
ST_RES SW_TOURN TWO_MON RSP_77
      rm_1 rm_days rm_pc rm_pcst rm_pccty rm_pr rm_prst
      rm_prcty rm_sh rm_shst rm_shcty
      WAVE YEAR;
title 'NOAA 2000 Wave 6 Type 2 Cards';
run;

proc contents  data=current.t2_20006;
run; ENDSAS;
```

FILENAME: CHKFREQ.SAS

```
libname current '';
options ps=58 ls=80;
data chk (drop = codenum);
  set current.t2_20006;
run;
proc freq data=chk;
  title 'NOAA 2000 Wave 6 - TYPE 2 (FISHER) CARDS';
run;
```

FILENAME: TO_XPORT.SAS

```
/*  NOAA Project    Makes SAS TRANSPORT data set from t2_yyyyw.SD2 data set
    for transmittal to NOAA.     S. Wilder     8/8/96  */

libname current '';
libname trans xport '..\xported\t2_20006.xpt';
proc copy in=current out=trans;
  select t2_20006 / memtype=data;
```

```
run;
```

NOAA 1999 Wave 6 Trip Card (Type 3) Processing Summary 01/17/2000

1. Convert "fisher" and "trip" survey ASCII data files to SAS data sets. Done as part of general data file conversion in TRACKING\DATA.

2. Choose the "best" record from the fisher data sets; CfMC sometimes writes the same record more than once.

Programs: \FISHSTUF\FISHGOOD.SAS
\RECONTCT\FISHGOOD.SAS
Inputs: fisher SAS data sets
Outputs: \FISHSTUF\VTW6FI_2.SD2
\RECONTCT\FTCRECO1.SD2

3. Get trip data from "fisher" survey data sets; these contain the first six days'worth of trips. Does most of the initial variable processing.

Programs: \FISHSTUF\F_TRIPS.SAS
\RECONTCT\F_TRIPS.SAS
Inputs: \FISHSTUF\VTW6FI_2.SD2
\RECONTCT\FTCRECO1.SD2
Outputs: \FISHSTUF\FTCMAIN.SD2
\FISHSTUF\CREWFLAG.SD2
\RECONTCT\FTCRECON.SD2
\RECONTCT\CREWFLAG.SD2

4. Get trip data from "trip" data sets; contain all days after the first six. Gets info available on the "fisher" record that is not carried forward into the "trip" data file.

Program: \TRIPSTUF\NOAATRIP.SAS
Inputs: FTCMAIN.SD2
trip SAS data set VTWnTRIP.SD2
Output: \TRIPSTUF\NOAATRIP.SD2
\TRIPSTUF\CREWFLAG.SD2

Program: \RECONTCT\NOAATRIP.SAS
Input: FTCRECON.SD2
trip SAS data set TRIPxxx.SD2
Output: \RECONTCT\NOAATRIP.SD2
\RECONTCT\CREWFLG2.SD2

5. Combine the data from steps 2 and 3 into a complete trip data set for further refining. Starting wave 6 1999 also pulls in Puerto Rico and Virgin Island "counties" of residence as reported by respondents since that information is not part of the sample.

Program: GETREST.SAS
Inputs: FTCMAIN.SD2, \TRIPSTUF\NOAATRIP.SD2, \RECONTCT\FTCRECON.SD2,
\RECONTCT\NOAATRIP.SD2, \TYPE_1\PRVICNTY.SD2
Output: COMB_1A.SD2

6. Write out open-ends for recoding into an ASCII file.

Program: DUMPOPEN.SAS
Input: COMB_1A.SD2
Output: OPENEND.DAT

7. Merge the recoded open-ends back into the data file and calculate SUB_REG, TRIP_FLG, and MODE_FX. Uses a lookup table, CNTYXREF.SD2, to make sure recoded counties are valid.

   Program: MERGOPEN.SAS
   Inputs: OPENEND.COD, COMB_1A.SD2, CNTYXREF.SD2
   Output: COMB_1B.SD2

**** Steps 8 and 9 skipped starting with wave 2 1998. ****

8. Begin duplication of trip cards where fisher says 'all the rest of the trips are the same' (code 77, reason 4). Gather the needed info together.

   Program: FIND774B.SAS
   Input: COMB_1B.SD2
   Outputs: COMB_2.SD2 (fishers where not 'all the same trips')
   DUPSET.SD2 (fishers where did say 'all the same trips')
   CONT774.SD2 (list of fishers where did say 'all same')

9. Finish duplication of trip cards. Cards actually duplicated here.

   Program: DUPTRIP.SAS
   Input: DUPSET.SD2
   Output: MORE_4.SD2 (all trip cards for 'all same...' fishers)

10. Combine the duplicated trips with the non-duplicated trips from step 5. Also removes some useless trip records.

   *** Starting with wave 2 1998, only removes useless trip records. ***

   Program: MERGBACK.SAS
   Inputs: COMB_1B.SD2 (was COMB_2.SD2, MORE_4.SD2, DUPSET.SD2)
   Output: COMB_3.SD2

11. Begin duplication of 'all fishers took the same trip' households. Find the households where this occurred.

   Program: ALLSAME1.SAS
   Inputs: TYPE_1\VTW6HO_2.SD2
   Output: ALLSAME.SD2 (list of households and number of fishers)

12. Finish duplication of 'all fishers..' cards. Cards actually duplicated here.

   Program: ALLSAME2.SAS
   Inputs: ALLSAME.SD2, COMB_3.SD2
   Output: FAMDUPS.SD2 (duplicated trip cards)

13. Merge the duplicated 'all fishers...' cards with the previous cards.

   Program: LASTMERG.SAS
   Inputs: COMB_3.SD2, FAMDUPS.SD2
   Output: COMB_4.SD2

14. Make a dataset of those fishers who have more trip cards than the number of trips they said they took, for use when updating the

Type 2 (fisher) cards.

Program: MANYLEFT.SAS
Input: COMB_4.SD2
Output: TOOMANY.SD2

15. Get rid of what looked like good trip cards, but aren't, such as Texas, upstream of cutoff, wrong river, foreign trip, boat crewman. Put these removed cards into a data set for use when updating the Type 2 (fisher) cards.

Program: TOSSOUT.SAS
Input: COMB_4.SD2
Outputs: COMB_5.SD2 (good trip cards)
DUMPTRIP.SD2 (trip cards thrown out)
FSHRLEFT.SD2 (list of codenums and fshrnums in good cards)

16. Recode all charter/party boat trips of those who were captains/crewmen of charter/party boats to private boat trips. Also recode those who were generated as part of "all fishers took same trips" processing.

Program: FIXCREW.SAS
Inputs: COMB_5.SD2 (trip cards)
CREWFLAG.SD2 (all who said they were captains/crewmen)
TRIPSTUF\CREWFLAG.SD2
RECONTCT\CREWFLAG.SD2
RECONTCT\CREWFLG2.SD2
ALLSAME.SD2
Outputs: COMB_6.SD2 (recoded trip cards)
CREWFIXD.SD2 (list of trips that were recoded)

17. Make the final Type 3 (trip) card data set by retaining only those variables specified by NOAA.

Program: NOAATRP.SAS
Input: COMB_6.SD2
Outputs: T3_19996.SD2 (all good trip cards, NOAA-specified variables only.)
T3_RPT.SD2 (all good trip cards, with coast code and other variables needed for inland wave reporting.)

18. Make a transport data set of T3_19996.

Program: TO_XPORT.SAS
Input: T3_19996.SD2
Output: \XPORTED\T3_19996.XPT

End of trip card (Type 3) processing for NOAA 1999 Wave 6.

Special Processing Requirements for NOAA Fishery
Recontact Study 11/8/99

Since each fisher identified as part of DISP 28 processing
is loaded into the recontact study as a separate record,
EVEN IF SOME OF THEM BELONG TO THE SAME HOUSEHOLD, the
fisher number ("FSHRNUM") reported by the CfMC program is
always 1. This, obviously, is not correct.

To find the correct fisher number, a "SEQUENCE" number is
also loaded into the recontact study. It is generated as
part of the recontact sample-building process.

"SEQUENCE" starts at one and goes up to the maximum number
of fishers in that household that are being loaded to the
recontact study. Thus, if three fishers in the same household
are to be recontacted, the sequence numbers for that masterid
would be 1, 2, and 3. However, these could be the same as
fisher numbers obtained in the main survey flow.

A unique fisher number for each fisher is generated by
FIND_NO.SAS. This program reads the main study fisher data set
VTWnFI_2.SD2 and finds the highest fisher number ("MAXFISH")
for each masterid (household). It then reads the recontact
fisher data set and keeps a counter of which occurence of
each masterid this is for each fisher. The unique fisher number
is created by adding the occurence counter to MAXFISH. The
necessary info is saved in FISHNUM.SD2.

The fisher and trip card processing programs (F_TRIPS.SAS
and NOAATRIP.SAS, respectively) are basically the same as their
counterparts for the main studies. However, just after the
trip data is read in, the unique fisher numbers are merged into
the data by the MASTERID and SEQUENCE variables.

The above means that the recontact processing can not start
until after VTWnFI_2.SD2 has been generated in step 1 of the
main trip card processing.

Processing sequence:

FISHSTUF\FISHGOOD.SAS
RECONTCT\FISHGOOD.SAS
RECONTCT\FIND_NO.SAS
RECONTCT\F_TRIPS.SAS
RECONTCT\NOAATRIP.SAS
(if there are any 7 or more trips to process)

End of special processing requirements. (\RECONTCT\RECONTCT.INF)

FILENAME: FISHGOOD.SAS

```
/*  checks "Fisher" records for goodness - keeps the best */
libname current '';
libname upone '..\..\tracking\data';
data chk;
 set upone.fish456;
 length default=4;
 format goodness 1.;
 if sum(ins4,ins4a) gt 1 then goodness = 0;
 if sum(ins4,ins4a) eq 1 then goodness = 1;
 if ( (q19 gt 97) or (q20 gt 97) ) then goodness = 2;
 if ( (q19 eq 2)  or (q20 eq 2) )  then goodness = 3;
 if sum(q19a,q20a) gt 0 then goodness = 4;
run;

proc sort data=chk;  by masterid segment descending goodness;  run;

data dups (keep = masterid segment goodness case_id);
  set chk;
  by masterid segment;
  if not (first.segment and last.segment);
run;

proc print data=dups;
  title 'Fisher Records - Duplicate Master IDs and Fisher Numbers';
run;

proc sort data=chk out=current.ftcreco1 nodupkey;  by masterid segment;  run;
title 'Fisher Records';
proc contents data=current.ftcreco1;  run;
proc freq data=current.ftcreco1;
  tables goodness;
run;
```

FILENAME: F_TRIPS.SAS

```
/*  PROGRAM NAME:  F_TRIPS.SAS
    NOAA Wave 6 2000
    Reads "vtw6_FI2" SAS data set  (Reformatted with Option 5)
    and makes several (0 to 18) Type 3 Trip "Cards" in a SAS data set.
    S. Wilder   10/30/96
    Subregion, mode_fx, and trip_flg moved to later program in Wave Five 1996.
    Counties now come in one location per mode, not 20 locations, and
    have proper county fips code.  States now also have proper fips
    code, so lookup table no longer needed for this processing.
    Mod 4/16/97 to save a record of the people who said that they were
    crewmen, whether or not they were working.  This goes to the
    CREWFLAG data set.
    Mod for Wave Five 1997 to swap "launch" and "access" variables in
    boat trips, and set shore trip access values 98 and 99 to 0.
    Mod for Wave Four 1998 to add potriver variable.
*/
```

```
libname current '';

options error=1 ls=150 ps=58;

data allstuff;
  set current.vtw6fi_2;
  length codenum 8 default=4;
  format fshrnum 2. codenum 8.;
  fshrnum = ftimesx;
  codenum = masterid;
run;

proc sort nodupkey data=allstuff;  by masterid fshrnum;  run;

/*  Generate the trip variables (up to 3 per day) from the raw data */

/*  subregion, mode_fx, and trip_flg moved to later program in Wave Five */

Data current.ftcmain
        (keep = masterid codenum cnty_res reg_res st_res fshrnum
        access area salmon st time punch cnty
        tripnuma tripnumb date_trp weekend
        launch foreign for_bass kep_bass num_bass
        mode_f mode_fx sub_reg subreg wave year
        cont77 i numtrips date1 trip_flg river cutoff
        language crewman flag back_to pccost pcpaid pcnum pctype

        realcnty  realreg realsub coast
        potriver
        )
   current.renege (keep = codenum fshrnum q19 q19a q20 q20a st_res cnty_res realcnty reg_res realreg
coast)
   current.crewflag (keep = codenum fshrnum crewcode tripnuma tripnumb wave year)
   current.allsameA (keep = codenum fshrnum cont77 triplast)
   ;
   length codenum date1 tripnumb 8 default=4;
NEXT: set allstuff;

format area mode_f mode_fx $2. date_trp $6. trip_flg 1.
     date1 datetime13. crewman 1. cnty_res 3. st_res 2. flag $4.
     mm $2. dd $2. back_to $15. reg_res 2.;

if _N_ eq 1 then date1 = datetime();
retain date1;

st_res = substr(fipscode,1,2);
cnty_res = substr(fipscode,3,3);

/* recode for wrong subregion - added 9/23/96 */
if (st_res eq 6) and (cnty_res eq 79) then subreg = 2;

REG_RES = SUBREG;   /*  8/12/96 Reg_res in NOAA data is really subregion of res.  */

/*  See if there's anything to process */
```

```
flag = 'NONE';

if ( (q19a gt 0) and (q20a lt 1) ) then flag = 'IN';
if ( (q19a lt 1) and (q20a gt 0) ) then flag = 'OUT';
if ( (q19a gt 0) and (q20a gt 0) ) then flag = 'BOTH';
if ( (q19 eq .) and (q20 eq .) )   then flag = 'MISS';

/*
if counting out-of-state trips only...
if st_res in (2,15,48) then do;
  if q19a ne . then do;
     q19a = 0;
     if q20a lt 1 then flag = 'NONE';
     if q20a ge 1 then flag = 'OUT';
  end;
  tog = q20a;
end;
*/


if flag eq 'MISS' then go to NEXT;  /*  not fisher */
if flag eq 'NONE' then do;   /* said fisher, but 0 trips */
   output current.renege;
   go to NEXT;
end;

/*  numtrips = tog;    replaced by following line 5/8/98 */
numtrips = sum(q19a,q20a);    /* tog was skipped if TX/AK/HI and no out-of-state trips */

wave = 6;  year = 2000;
cont77 = sum(cont77,resp77a);  /* wave 4 now stored in 2 variables */

/*  common trip variables */

array q34    {*} t38_1  q34_2-q34_6;  /*  Date of trip */
array q34a   {*} t40_1  q34a_2-q34a_6;
array q34b   {*} t40A_1 q34b_2-q34b_6;

array q43    {*} q43_1-q43_6;   /*  Shore mode  */

array q38a   {*} q38_1_1 q38_2_1 q38_3_1 q38_4_1 q38_5_1 q38_6_1; /* Boat modes */
array q38b   {*} q38_1_2 q38_2_2 q38_3_2 q38_4_2 q38_5_2 q38_6_2; /* Boat modes */

array q40    {*} q40_1-q40_6;    /*  Crewman */

array pccosta  {*} pccost_1-pccost_6;
array pccostra {*} pccost1r pccost2r pccost3r pccost4r pccost5r pccost6r;
array pcpaida  {*} pcpaid_1-pcpaid_6;
array pcnuma   {*} pcnum_1-pcnum_6;
array pcnumra  {*} pcnum_1r pcnum_2r pcnum_3r pcnum_4r pcnum_5r pcnum_6r;
array pctypea  {*} pctype_1-pctype_6;


/*  shore trip variables  */
```

```
array t94    {*} t94_1-t94_6;    /*  Salmon  */
array t81    {*} t81_1-t81_6;    /*  Access  */
array t82    {*} t82_1-t82_6;    /*  Time    */
array t84    {*} t84_1-t84_6;    /*  Area    */
array t85    {*} t85_1-t85_6;    /*  CA river */
array t86    {*} t86_1-t86_6;    /*  CA river */
array t87    {*} t87_1-t87_6;    /*  OR river */
array t89    {*} t89_1-t89_6;    /*  OR river */
array WA3    {*} WA3_1-WA3_6;    /*  WA river */
array WA4    {*} WA4_1-WA4_6;    /*  WA river */
array WA4A   {*} WA4A_1-WA4A_6;  /*  cutoff for other rivers */
array t91    {*} t91_1-t91_6;    /*  Area    */
array t92    {*} t92_1-t92_6;    /*  Area    */
array q94    {*} q94_1-q94_6;    /*  Fishing trip in home state */
array t93    {*} t93_1-t93_6;    /*  State of fishing - not home state */
array SH_CNTY {*} CNTY97_1-CNTY97_6;   /* unified county area - Wave Five */
array WA105  {*} WA_105A WA_105B WA_105C WA_105D WA_105E WA_105F;  /* Punch */
array SH_WHERE {*} CITOT2_1-CITOT2_6;  /*  other location info */
array shpotriv {*} potomb_1-potomb_6;  /* Potomac river */

/*  first boat trip variables  */
array q89f   {*} q89_1-q89_6;    /* Salmon  */
array q90f   {*} q90_1-q90_6;    /* Foreign */
array t47f   {*} t47_1-t47_6;    /* Access */
array t48f   {*} t48_1-t48_6;    /* Launch */
array t49f   {*} t49_1-t49_6;    /* Launch */
array t51f   {*} t51_1-t51_6;    /* Time */
array t55f   {*} t55_1-t55_6;    /* Area */
array t57f   {*} t57_1-t57_6;
array t58f   {*} t58_1-t58_6;
array t59f   {*} t59_1-t59_6;
array t60f   {*} t60_1-t60_6;
array WA1f   {*} WA1_1-WA1_6;
array WA2f   {*} WA2_1-WA2_6;
array WA2Af  {*} WA2A_1-WA2A_6;  /*  Cutoff for other rivers */
array t61f   {*} t61_1-t61_6;    /*  Area  */
array t62f   {*} t62_1-t62_6;    /*  Area  */
array q70f   {*} q70_1-q70_6;    /*  Fishing trip in home state */
array t63f   {*} t63_1-t63_6;    /*  State of fishing - not home state */
array BF_CNTY {*} cnty_1-cnty_6;   /* Unified county area - Wave Five */
array WA84   {*} WA_84A WA_84B WA_84C WA_84D WA_84E WA_84F;  /* Punch */
array BF_WHERE {*} CITOT_1-CITOT_6;  /*  other location info */
array bfpotriv {*} potom_1-potom_6;  /*  Potomac river */


/*  second boat trip variables  */
array q65s   {*} q65 q65_2-q65_6;                    /* Salmon */
array q66s   {*} q66 q66_2-q66_6;                    /* Foreign */
array t47s   {*} t47_A t47_B t47_C t47_D t47_E t47_F;       /* Access */
array t48s   {*} t48_A t48_B t48_C t48_D t48_E t48_F;       /* Launch */
array t49s   {*} t49_A t49_B t49_C t49_D t49_E t49_F;       /* Launch */
array t51s   {*} t51_A t51_B t51_C t51_D t51_E t51_F;       /* Time */
array t55s   {*} t55_A t55_B t55_C t55_D t55_E t55_F;       /* Area */
array t57s   {*} t57_A t57_B t57_C t57_D t57_E t57_F;
```

```
array t58s   {*} t58_A t58_B t58_C t58_D t58_E t58_F;
array t59s   {*} t59_A t59_B t59_C t59_D t59_E t59_F;
array t60s   {*} t60_A t60_B t60_C t60_D t60_E t60_F;
array WA1s   {*} WA1_A WA1_B WA1_C WA1_D WA1_E WA1_F;
array WA2s   {*} WA2_A WA2_B WA2_C WA2_D WA2_E WA2_F;
array WA2As  {*} WA2A_A WA2A_B WA2A_C WA2A_D WA2A_E WA2A_F;  /* Cutoff for other rivers */
array t61s   {*} t61_A t61_B t61_C t61_D t61_E t61_F;       /* Area */
array t62s   {*} t62_A t62_B t62_C t62_D t62_E t62_F;       /* Area */
array q46s   {*} q46_1-q46_6;                          /* Fishing trip in home state */
array t63s   {*} t63_A t63_B t63_C t63_D t63_E t63_F;       /* State of fishing - not home state */
array BS_CNTY {*} CNTY_A CNTY_B CNTY_C CNTY_D CNTY_E CNTY_F;  /* Unified county area */
array WA60   {*} WA_60A WA_60B WA_60C WA_60D WA_60E WA_60F;        /* Punch */
array BS_WHERE {*} CITOT_A  CITOT_B CITOT_C CITOT_D CITOT_E CITOT_F; /* other location info */
array bspotriv {*} potom_a potom_b potom_c potom_d potom_e potom_f;  /* Potomac river */

/* added 5/8/97 for all remaining trips same flag */
do i = 1 to 6;
  if q34(i) eq 70 then do;
    q34(i) = 77;
    cont77 = 4;
    triplast = i;
    output current.allsameA;
  end;
end;

do i = 1 to 6;   /*  shore loop processing  */

/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f =  '  ';   area = ' ';
  salmon = .;  weekend = . ;  cnty = .;
  time = .; launch = .; foreign = .; mode_fx =  '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .; crewman = .;
  mm = ' ';  dd = ' ';  back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

  access = t81(i);
  if access in (98,99) then access = 0;     /* added w5 1997 */

  punch = wa105(i);   /* added for wave 4 */

  if t84(i) in (98,99) then area = '9';
   else if t84(i) eq 77 then area = ' ';
   else area = t84(i);
  if area eq '4' and t91(i) eq 1 then area = '1';
  if area eq '5' and t92(i) eq 1 then area = '1';

  if t94(i) eq 1 then salmon = 1;


  /*  mode_f  - changed for wave 4 , changed for wave two 2000
      because zero is now pier and all q43 responses shifted +1 */
  if q43(i) in (77,98,99) then mode_f = '10';
```

```
    else mode_f = q43(i)-1;
  if compress(mode_f) eq '.' then mode_f = '  ';

/*  date of trip  */
  if q34a(i) in (98,99) then weekend = 9;
  dd = q34b(i);
  if upcase(q34b(i)) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b(i)) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t82(i);
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q94(i) eq 1 then st = st_res;
  else if ( 0 < t93(i) < 54) then st = t93(i);
  else if t93(i) in (72,78) then st = t93(i);  /* PR/VI 1/13/2000 */
  else if t93(i) eq 55 then st = 97;  /*  other state - put aside */
  else if t93(i) eq 77 then st = 77;  /*  no details */
  else if t93(i) eq 98 then st = 98;  /*  don't know / refused */
  else if t93(i) eq 99 then st = 99;  /*  refused */
end;

/*
if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;     lump Texas with 'other' state for most
*/
if st in (2,15,48) then st = 97;   /* AK/TX/HI to 'other */

/*  county of trip  */
  cnty = sh_cnty(i);
  if cnty eq 0 then cnty = 777;
```

```
/*  other info on trip location  */
  back_to = sh_where(i);

/*  subregion and mode_fx processing moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA4A(i) eq 1) then cutoff = 2;
     else if (WA4A(i) eq 2) then cutoff = 1;
       else cutoff = WA4A(i);
 end;
/*  end cutoff */

/*  river of trip */
  if st eq 6 then do;
    river = t85(i);
    cutoff = t86(i);
  end;
  if st eq 41 then do;
    river = t87(i);
    cutoff = t89(i);
  end;
  if st eq 53 then do;
   river = WA3(i);
   cutoff = WA4(i);
  end;
/*  end river */

/* Potomac river */
potriver = shpotriv(i);

/*  'day-trip' work variables for later  */
  tripnuma = i;
  tripnumb = 0.1;

  launch = .;  foreign = .;
  for_bass = .;  kep_bass = .;  num_bass = .;

 if compress(mode_f) ne '' then output current.ftcmain;

end;   /*  end of shore loop processing  */

/*   END OF SHORE LOOP  */

do i = 1 to 6;   /*  first boat loop processing  */

/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = '  ';   area = ' ';
  salmon = .;  weekend = . ;   cnty = .;
  time = .; launch = .; foreign = .; mode_fx = '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
  mm = ' ';  dd = ' '; back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
```

```
   potriver = .;

   punch = wa84(i);   /* added for wave 4  */

/*  date of trip  */
   if q34a(i) in (98,99) then weekend = 9;
   dd=q34b(i);
   if upcase(q34b(i)) eq 'WE' then do;
     weekend = 2;
     dd = '00';
   end;
   if upcase(q34b(i)) eq 'WD' then do;
     weekend = 1;
     dd = '00';
   end;
   if ( (length(dd) eq 1) and (dd ne ' ') )
      then dd = '0' || dd;
   if (q34(i) ne .) then mm = put(q34(i),z2.);
   if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
   date_trp = mm || dd || '01';
   if mm in ('10','11','12') then date_trp = mm || dd || '00';
   /*  need to process 77 - "can't remember" - q34 can be 77 */
   if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
   /*  also need to process "no more trips"  month code is 66 in Wave Five */
   if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
   time = t51f(i);
   if time = 25 then time = -1;
   if time = 26 then time = -3;
   if time in (98,99) then time = -2;
/* end time */

/*  launch type - was "access" before w5 1997 */
   if t47f(i) in (98,99) then launch = 0;
   if t48f(i) in (98,99) then launch = 0;
   if t49f(i) in (98,99) then launch = 0;
   if ( 0 < t48f(i) < 5) then launch = t48f(i);
/* Added wave 2 2000 for change to question 48 */
   if t48f(i)=4 then launch=7;
   if t48f(i)=5 then launch=4;
   if ( 0 < t49f(i) < 5) then launch = t49f(i) + 4;
/*  end launch */

/* area of trip */
   if t55f(i) in (98,99) then area = '9';
     else if t55f(i) eq 77 then area = ' ';
      else area = t55f(i);
   if area eq '4' and t61f(i) eq 1 then area = '1';
   if area eq '5' and t62f(i) eq 1 then area = '1';
/* end area */

/* access - was "launch" before w5 1997  */
```

```
  access = t47f(i);
  if access in (98,99) then access = 0;
/* end access  */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (q38a(i) ne .) and (q38b(i) eq .) ) then wk_mode = q38a(i);
  else if ( (2 < q38a(i) < 6) and (q38b(i) ne .) )  then wk_mode = q38a(i);
  else if ( (2 < q38b(i) < 6) and (q38a(i) ne .) )  then wk_mode = q38b(i);
  /*  recodes changed for Wave 2 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
  if compress(mode_f) eq '.' then mode_f = '  ';
  wk_mode = .;

  /* checking data in log
  if codenum in (111556,136299) then do;
    put 'loop at line 406';
    put codenum i wk_mode q38a(i) q38b(i) mode_f;
  end;
  */
/*  end mode type */

/*  party/charter cost info   12/29/97 */
   if compress(mode_f) in ('6','7') then do;
     pccost = pccostra(i);
     if pccosta(i) eq 1 then pccost = 0;
     if pccosta(i) in (77,98,99) then pccost = (pccosta(i) * 100);
     pcpaid = pcpaida(i);
     pcnum  = pcnumra(i);
     if pcnuma(i) in (77,98,99) then pcnum = (pcnuma(i) * 10);  /* no 0 */
     pctype = pctypea(i);
   end;

  foreign = q90f(i);

  if q89f(i) eq 1 then salmon = 1;

  if ( (compress(mode_f) in ('6','7')) and (q40(i) eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40(i) gt . then do;     /*  added 4/16/97  */
    crewcode = q40(i);
    output current.crewflag;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q70f(i) eq 1 then st = st_res;
```

```
  else if ( 0 < t63f(i) < 54) then st = t63f(i);
  else if t63f(i) in (72,78) then st = t63f(i);  /* PR/VI 1/13/2000 */
  else if t63f(i) eq 55 then st = 97;  /*  other state - put aside */
  else if t63f(i) eq 77 then st = 77;  /*  no details */
  else if t63f(i) eq 98 then st = 98;  /*  don't know / refused */
  else if t63f(i) eq 99 then st = 99;  /*  refused */
end;

/*
if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;     lump Texas with 'other' state for most
*/
if st in (2,15,48) then st = 97;   /* AK/TX/HI to 'other */

/*  county of trip  */
  cnty = bf_cnty(i);
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = bf_where(i);

/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA2Af(i) eq 1) then cutoff = 2;
     else if (WA2Af(i) eq 2) then cutoff = 1;
        else cutoff = WA2Af(i);
 end;
/*  end cutoff */

/*  river of trip */
  if st eq 6 then do;
    river = t57f(i);
    cutoff = t58f(i);
  end;
  if st eq 41 then do;
    river = t59f(i);
    cutoff = t60f(i);
  end;
  if st eq 53 then do;
    river = WA1f(i);
    cutoff = WA2f(i);
  end;
/*  end river  */

/* Potomac river */
potriver = bfpotriv(i);

  tripnuma = i;
  tripnumb = 0.2;

 if compress(mode_f) ne '' then output current.ftcmain;
```

```
end;   /*  end of first boat trip loop processing */


do i = 1 to 6;   /*  second boat loop processing  */

/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = '  ';   area = ' ';
  salmon = .;  weekend = . ;    cnty = .;
  time = .; launch = .; foreign = .; mode_fx = '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
  mm = ' ';  dd = ' '; back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

  punch = wa60(i);   /* added for wave 4  */

/*  date of trip  */
  if q34a(i) in (98,99) then weekend = 9;
  dd=q34b(i);
  if upcase(q34b(i)) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b(i)) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51s(i);
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 NOT changed
   until Wave 2 2000  */
  if t47s(i) in (98,99) then launch = 0;
  if t48s(i) in (98,99) then launch = 0;
  if t49s(i) in (98,99) then launch = 0;
  if ( 0 < t48s(i) < 5) then launch = t48s(i);
/* Added wave 2 2000 for change to question 48 */
```

```
  if t48s(i)=4 then launch=7;
  if t48s(i)=5 then launch=4;
  if ( 0 < t49s(i) < 5) then launch = t49s(i) + 4;
/*  end launch */

/* area of trip */
  if t55s(i) in (98,99) then area = '9';
    else if t55s(i) eq 77 then area = ' ';
     else area = t55s(i);
  if area eq '4' and t61s(i) eq 1 then area = '1';
  if area eq '5' and t62s(i) eq 1 then area = '1';
/* end area */

/* access type */
/*  access - was "launch" before Wave Five 1997 NOT changed
   until Wave 2 2000  */
  access = t47s(i);
  if access in (98,99) then access = 0;
/* end access */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (2 < q38a(i) < 6) and (q38b(i) ne .) )  then wk_mode = q38b(i);
  else if ( (2 < q38b(i) < 6) and (q38a(i) ne .) )  then wk_mode = q38a(i);
  /*  recodes changed for Wave 2 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
  if compress(mode_f) eq '.' then mode_f = '  ';
  wk_mode = .;
/* chekcing data in log
  if codenum in (111556,136299) then do;
    put 'loop at line 576';
    put codenum i wk_mode q38a(i) q38b(i) mode_f;
  end;
*/
/*  end mode type */

/*  party/charter cost info   12/29/97 */
   if compress(mode_f) in ('6','7') then do;
    pccost = pccostra(i);
    if pccosta(i) eq 1 then pccost = 0;
    if pccosta(i) in (77,98,99) then pccost = (pccosta(i) * 100);
    pcpaid = pcpaida(i);
    pcnum  = pcnumra(i);
    if pcnuma(i) in (77,98,99) then pcnum = (pcnuma(i) * 10);  /* no 0 */
    pctype = pctypea(i);
   end;

  foreign = q66s(i);
```

```
  if q65s(i) eq 1 then salmon = 1;

  if ( (compress(mode_f) in ('6','7')) and (q40(i) eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40(i) gt . then do;     /*  added 4/16/97  */
    crewcode = q40(i);
    output current.crewflag;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q46s(i) eq 1 then st = st_res;
  else if ( 0 < t63s(i) < 54) then st = t63s(i);
  else if t63s(i) in (72,78) then st = t63s(i);  /* PR/VI 1/13/2000 */
  else if t63s(i) eq 55 then st = 97;  /*  other state - put aside */
  else if t63s(i) eq 77 then st = 77;  /*  no details */
  else if t63s(i) eq 98 then st = 98;  /*  don't know / refused */
  else if t63s(i) eq 99 then st = 99;  /*  refused */
end;

/*
if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;    lump Texas with 'other' state for most
*/
if st in (2,15,48) then st = 97;   /* AK/TX/HI to 'other */

/*  county of trip  */
  cnty = bs_cnty(i);
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = bs_where(i);

/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA2As(i) eq 1) then cutoff = 2;
     else if (WA2As(i) eq 2) then cutoff = 1;
        else cutoff = WA2As(i);
 end;
/*  end cutoff */

/*  river of trip */
  if st eq 6 then do;
     river = t57s(i);
     cutoff = t58s(i);
  end;
  if st eq 41 then do;
    river = t59s(i);
    cutoff = t60s(i);
  end;
  if st eq 53 then do;
```

```
    river = WA1s(i);
    cutoff = WA2s(i);
  end;
/*  end river  */

/* Potomac river */
potriver = bspotriv(i);

  tripnuma = i;
  tripnumb = 0.3;

 if compress(mode_f) ne '' then output current.ftcmain;

end;   /*  end of second boat trip loop processing */

/*  get dates with no modes  */

do i = 1 to 6;

/* initialize all loop-type variables  */

  date_trp = ' ';  mode_f = '  ';   area = ' ';
  salmon = .;  weekend = . ;    cnty = .;
  time = .; launch = .; foreign = .; mode_fx =  '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .;  cutoff = .;  crewman = .;
  mm = ' ';  dd = ' '; back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

/*  date of trip  */
  if q34a(i) in (98,99) then weekend = 9;
  dd=q34b(i);
  if upcase(q34b(i)) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b(i)) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

  tripnuma = i;
```

```
  tripnumb = 0.4;

/* output only if mode is missing */
  bl_flag = .;
  if ( (q43(i) eq .) and (q38a(i) eq .) and (q38b(i) eq .) )
    then bl_flag = 1;
  if ( (bl_flag eq 1 ) and (substr(date_trp,1,2) not eq '  ') )
    then output current.ftcmain;
end;

run;
proc sort data=current.ftcmain;  by codenum fshrnum tripnuma tripnumb;
options ls=80;
run;
proc freq; title 'NOAA 2000 Wave 6 - Freqs of FTCMAIN';
run;
ENDSAS;
```

FILENAME: FIND_NO.SAS

```
/*  Makes fshrnum for recontact studies      NOAA Wave 4 2000    S. Wilder    10/31/96   */

libname current '';
libname main '..\FISHSTUF';

proc means data=main.vtw6fi_2 noprint;
 by masterid;
 var ftimesx;
 output out=one max=maxfish;
run;

proc freq data=one;  tables maxfish;  run;

data recon1 (keep = masterid segment case_id);
 set current.ftcreco1;
run;

proc sort nodupkey data=recon1; by masterid segment;  run;

data recon1;
 set recon1;
 by masterid;
 retain cntr;
 if first.masterid then cntr = 0;
 cntr = cntr + 1;
run;

proc sort nodupkey data=one;  by masterid;

data current.fishnum (drop = _type_ _freq_ maxfish cntr ) ;
 merge one (in=dat) recon1 (in=re);
 by masterid;
 if re;
```

```
  format fshrnum 2.;
  fshrnum = sum(maxfish,cntr);
run;

proc sort nodupkey data=current.fishnum;  by masterid fshrnum;  run;

proc print data=current.fishnum;  run;

proc freq;  tables fshrnum;  run;
```

FILENAME: F_TRIPS.SAS

```
/*  PROGRAM NAME:  F_TRIPS.SAS  FOR RECONTACT STUDY ONLY
    NOAA Wave 4 2000
    Reads "FTCRECO1" SAS data set  (Reformatted with Option 5)
    and makes several (0 to 18) Type 3 Trip "Cards" in SAS data set
    FTCRECON.
    S. Wilder   10/30/96

    Subregion, mode_fx, and trip_flg moved to later program in Wave Five 1996.
    Counties now come in one location per mode, not 20 locations, and
    have proper county fips code.  States now also have proper fips
    code, so lookup table no longer needed for this processing.
    Mod 4/16/97 to save a record of the people who said that they were
    crewmen, whether or not they were working.  This goes to the
    CREWFLAG data set.
    Mod Wave Five 1997 to swap launch and access variables for boat trips,
    and to set shore trip access values of 98 and 99 to 0.
    Mod wave 6 1997 to process new variables pccost, pcpaid, pcnum,
    and pctype.
    Mod wave 4 1998 for new variable potriver.
*/

libname current '';

options error=1 ls=150 ps=58;

data allstuff;
  set current.ftcreco1;
  length codenum 8 default=4;
  format codenum 8.;
  codenum = masterid;
run;

proc sort nodupkey data=allstuff;  by masterid segment;  run;

/*  Put in the fshrnum from FISHNUM.SD2  */

proc sort data=current.fishnum;  by masterid segment;  run;

data allstuff;
   merge allstuff (in=all) current.fishnum (in=num);
```

```
  by masterid segment;
  if all;
  if not num then put 'NO FISHER NUMBER ' masterid segment;
run;

/*  Generate the trip variables (up to 3 per day) from the raw data */

/*  subregion, mode_fx, and trip_flg moved to later program in Wave Five */

Data current.ftcrecon
        (keep = masterid codenum cnty_res reg_res st_res fshrnum
        access area salmon st time punch cnty
        tripnuma tripnumb date_trp weekend
        launch foreign for_bass kep_bass num_bass
        mode_f mode_fx sub_reg subreg wave year
        cont77 i numtrips date1 trip_flg river cutoff
        language crewman flag back_to pccost pcpaid pcnum pctype
        coast realcnty realreg realsub
        potriver
        )
   current.renege (keep = codenum fshrnum q19 q19a q20 q20a)
   current.crewflag (keep = codenum fshrnum crewcode tripnuma tripnumb wave year)
   current.allsameA (keep = codenum fshrnum cont77 triplast)
   ;
   length codenum date1 tripnumb 8 default=4;
NEXT: set allstuff;

format area mode_f mode_fx $2. date_trp $6. trip_flg 1.
      date1 datetime13. crewman 1. cnty_res 3. st_res 2. flag $4.
      mm $2. dd $2. back_to $15. reg_res 2.;

if _N_ eq 1 then date1 = datetime();
retain date1;

st_res = substr(fipscode,1,2);
cnty_res = substr(fipscode,3,3);

/*  See if there's anything to process */
flag = 'NONE';
if ( (q19a gt 0) and (q20a lt 1) ) then flag = 'IN';
if ( (q19a lt 1) and (q20a gt 0) ) then flag = 'OUT';
if ( (q19a gt 0) and (q20a gt 0) ) then flag = 'BOTH';
if ( (q19 eq .) and (q20 eq .) )   then flag = 'MISS';

/*
if st_res in (2,15,48) then do;       AK,HI,TX
  if q19a ne . then do;
     q19a = 0;
     if q20a lt 1 then flag = 'NONE';
     if q20a ge 1 then flag = 'OUT';
  end;
  tog = q20a;
end;
*/
```

```
if flag eq 'MISS' then go to NEXT;  /*  not fisher */
if flag eq 'NONE' then do;   /* said fisher, but 0 trips */
  output current.renege;
  go to NEXT;
end;

/*  numtrips = tog;  replaced by following 5/8/98 */
numtrips = sum(q19a,q20a);    /*  tog skipped if TX/AK/HI and no out-of-state trips */

wave = 6;  year = 2000;
cont77 = sum(cont77,resp77a);  /* wave 4 now stored in 2 variables */

/* recode for wrong subregion - added 9/23/96 */
if (st_res eq 6) and (cnty_res eq 79) then subreg = 2;

REG_RES = SUBREG;   /*  8/12/96 Reg_res in NOAA data is really subregion of res.  */

/*  common trip variables */

array q34    {*} t38_1  q34_2-q34_6;  /*  Date of trip */
array q34a   {*} t40_1  q34a_2-q34a_6;
array q34b   {*} t40A_1 q34b_2-q34b_6;

array q43    {*} q43_1-q43_6;   /*  Shore mode  */

array q38a   {*} q38_1_1 q38_2_1 q38_3_1 q38_4_1 q38_5_1 q38_6_1; /* Boat modes */
array q38b   {*} q38_1_2 q38_2_2 q38_3_2 q38_4_2 q38_5_2 q38_6_2; /* Boat modes */

array q40    {*} q40_1-q40_6;    /*  Crewman */

array pccosta  {*} pccost_1-pccost_6;
array pccostra {*} pccost1r pccost2r pccost3r pccost4r pccost5r pccost6r;
array pcpaida  {*} pcpaid_1-pcpaid_6;
array pcnuma   {*} pcnum_1-pcnum_6;
array pcnumra  {*} pcnum_1r pcnum_2r pcnum_3r pcnum_4r pcnum_5r pcnum_6r;
array pctypea  {*} pctype_1-pctype_6;


/*  shore trip variables  */
array t94    {*} t94_1-t94_6;    /*  Salmon  */
array t81    {*} t81_1-t81_6;    /*  Access  */
array t82    {*} t82_1-t82_6;    /*  Time    */
array t84    {*} t84_1-t84_6;    /*  Area    */
array t85    {*} t85_1-t85_6;    /*  CA river */
array t86    {*} t86_1-t86_6;    /*  CA river */
array t87    {*} t87_1-t87_6;    /*  OR river */
array t89    {*} t89_1-t89_6;    /*  OR river */
array WA3    {*} WA3_1-WA3_6;    /*  WA river */
array WA4    {*} WA4_1-WA4_6;    /*  WA river */
array WA4A   {*} WA4A_1-WA4A_6;  /*  cutoff for other rivers */
array t91    {*} t91_1-t91_6;    /*  Area    */
array t92    {*} t92_1-t92_6;    /*  Area    */
array q94    {*} q94_1-q94_6;    /*  Fishing trip in home state */
array t93    {*} t93_1-t93_6;    /*  State of fishing - not home state */
```

```
array SH_CNTY {*} CNTY97_1-CNTY97_6;   /* unified county area - Wave Five */
array WA105  {*} WA_105A WA_105B WA_105C WA_105D WA_105E WA_105F;  /* Punch */
array SH_WHERE {*} CITOT2_1-CITOT2_6;  /*  other location info */
array shpotriv {*} potomb_1-potomb_6;  /*  Potomic river */

/*  first boat trip variables  */
array q89f   {*} q89_1-q89_6;    /* Salmon  */
array q90f   {*} q90_1-q90_6;    /* Foreign */
array t47f   {*} t47_1-t47_6;    /* Access */
array t48f   {*} t48_1-t48_6;    /* Launch */
array t49f   {*} t49_1-t49_6;    /* Launch */
array t51f   {*} t51_1-t51_6;    /* Time */
array t55f   {*} t55_1-t55_6;    /* Area */
array t57f   {*} t57_1-t57_6;
array t58f   {*} t58_1-t58_6;
array t59f   {*} t59_1-t59_6;
array t60f   {*} t60_1-t60_6;
array WA1f   {*} WA1_1-WA1_6;
array WA2f   {*} WA2_1-WA2_6;
array WA2Af  {*} WA2A_1-WA2A_6;  /*  Cutoff for other rivers */
array t61f   {*} t61_1-t61_6;    /*  Area  */
array t62f   {*} t62_1-t62_6;    /*  Area  */
array q70f   {*} q70_1-q70_6;    /*   Fishing trip in home state */
array t63f   {*} t63_1-t63_6;    /*   State of fishing - not home state */
array BF_CNTY {*} cnty_1-cnty_6;   /* Unified county area - Wave Five */
array WA84   {*} WA_84A WA_84B WA_84C WA_84D WA_84E WA_84F;  /* Punch */
array BF_WHERE {*} CITOT_1-CITOT_6;  /*  other location info */
array bfpotriv {*} potom_1-potom_6;  /*  Potomic river */

/*  second boat trip variables  */
array q65s   {*} q65 q65_2-q65_6;                    /* Salmon */
array q66s   {*} q66 q66_2-q66_6;                    /* Foreign */
array t47s   {*} t47_A t47_B t47_C t47_D t47_E t47_F;       /* Access */
array t48s   {*} t48_A t48_B t48_C t48_D t48_E t48_F;       /* Launch */
array t49s   {*} t49_A t49_B t49_C t49_D t49_E t49_F;       /* Launch */
array t51s   {*} t51_A t51_B t51_C t51_D t51_E t51_F;       /* Time */
array t55s   {*} t55_A t55_B t55_C t55_D t55_E t55_F;       /* Area */
array t57s   {*} t57_A t57_B t57_C t57_D t57_E t57_F;
array t58s   {*} t58_A t58_B t58_C t58_D t58_E t58_F;
array t59s   {*} t59_A t59_B t59_C t59_D t59_E t59_F;
array t60s   {*} t60_A t60_B t60_C t60_D t60_E t60_F;
array WA1s   {*} WA1_A WA1_B WA1_C WA1_D WA1_E WA1_F;
array WA2s   {*} WA2_A WA2_B WA2_C WA2_D WA2_E WA2_F;
array WA2As  {*} WA2A_A WA2A_B WA2A_C WA2A_D WA2A_E WA2A_F;  /* Cutoff for other rivers */
array t61s   {*} t61_A t61_B t61_C t61_D t61_E t61_F;       /* Area */
array t62s   {*} t62_A t62_B t62_C t62_D t62_E t62_F;       /* Area */
array q46s   {*} q46_1-q46_6;                        /* Fishing trip in home state */
array t63s   {*} t63_A t63_B t63_C t63_D t63_E t63_F;       /* State of fishing - not home state */
array BS_CNTY {*} CNTY_A CNTY_B CNTY_C CNTY_D CNTY_E CNTY_F;  /* Unified county area */
array WA60   {*} WA_60A WA_60B WA_60C WA_60D WA_60E WA_60F;        /* Punch */
array BS_WHERE {*} CITOT_A  CITOT_B CITOT_C CITOT_D CITOT_E CITOT_F; /* other location info */
array bspotriv {*} potom_a potom_b potom_c potom_d potom_e potom_f;  /* Potomac river */

/* added 5/8/97 for all remaining trips same flag */
```

```
do i = 1 to 6;
  if q34(i) eq 70 then do;
    q34(i) = 77;
    cont77 = 4;
    triplast = i;
    output current.allsameA;
  end;
end;

do i = 1 to 6;   /*  shore loop processing  */

/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = '  ';   area = ' ';
  salmon = .;  weekend = . ;  cnty = .;
  time = .; launch = .; foreign = .; mode_fx =  '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .; crewman = .;
  mm = ' ';  dd = ' ';  back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

  access = t81(i);
  if access in (98,99) then access = 0;   /* added Wave Five 1997 */

  punch = wa105(i);   /* added for wave 4 */

  if t84(i) in (98,99) then area = '9';
    else if t84(i) eq 77 then area = ' ';
    else area = t84(i);
  if area eq '4' and t91(i) eq 1 then area = '1';
  if area eq '5' and t92(i) eq 1 then area = '1';

  if t94(i) eq 1 then salmon = 1;


  /*  mode_f  - changed for wave 4 changed for Wave Two 2000
      shore modes all +1 in questionairre */
  if q43(i) in (77,98,99) then mode_f = '10';
    else mode_f = q43(i)-1;
  if compress(mode_f) eq '.' then mode_f = '  ';

/*  date of trip  */
  if q34a(i) in (98,99) then weekend = 9;
  dd = q34b(i);
  if upcase(q34b(i)) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b(i)) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
```

```
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t82(i);
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q94(i) eq 1 then st = st_res;
  else if ( 0 < t93(i) < 54) then st = t93(i);
  else if t93(i) in (72,78) then st = t93(i);  /*  PR/VI   1/13/2000 */
  else if t93(i) eq 55 then st = 97;  /*  other state - put aside */
  else if t93(i) eq 77 then st = 77;  /*  no details */
  else if t93(i) eq 98 then st = 98;  /*  don't know / refused */
  else if t93(i) eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;     lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;   /* added 5/8/98 */

/*  county of trip  */
  cnty = sh_cnty(i);
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = sh_where(i);

/*  subregion and mode_fx processing moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA4A(i) eq 1) then cutoff = 2;
     else if (WA4A(i) eq 2) then cutoff = 1;
       else cutoff = WA4A(i);
 end;
/*  end cutoff */

/*  river of trip */
  if st eq 6 then do;
    river = t85(i);
    cutoff = t86(i);
```

```
  end;
  if st eq 41 then do;
    river = t87(i);
    cutoff = t89(i);
  end;
  if st eq 53 then do;
   river = WA3(i);
   cutoff = WA4(i);
  end;
/*  end river */

/* Potomic river */
potriver = shpotriv(i);

/*  'day-trip' work variables for later  */
  tripnuma = i;
  tripnumb = 0.1;

  launch = .;  foreign = .;
  for_bass = .;  kep_bass = .;  num_bass = .;

 if compress(mode_f) ne '' then output current.ftcrecon;

end;   /*  end of shore loop processing  */

/*   END OF SHORE LOOP  */

do i = 1 to 6;   /*  first boat loop processing  */

/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = '  ';   area = ' ';
  salmon = .;  weekend = . ;   cnty = .;
  time = .; launch = .; foreign = .; mode_fx = '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
  mm = ' ';  dd = ' '; back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

  punch = wa84(i);   /* added for wave 4  */

/*  date of trip  */
  if q34a(i) in (98,99) then weekend = 9;
  dd = q34b(i);
  if upcase(q34b(i)) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b(i)) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
```

```
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51f(i);
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 */
  if t47f(i) in (98,99) then launch = 0;
  if t48f(i) in (98,99) then launch = 0;
  if t49f(i) in (98,99) then launch = 0;
  if ( 0 < t48f(i) < 5) then launch = t48f(i);
/* Added Wave Two 2000 for change to question 48 */
  if t48f(i)=4 then launch=7;
  if t48f(i)=5 then launch=4;
  if ( 0 < t49f(i) < 5) then launch = t49f(i) + 4;
/*  end launch */

/* area of trip */
  if t55f(i) in (98,99) then area = '9';
    else if t55f(i) eq 77 then area = ' ';
     else area = t55f(i);
  if area eq '4' and t61f(i) eq 1 then area = '1';
  if area eq '5' and t62f(i) eq 1 then area = '1';
/* end area */

/* access - was "launch" before Wave Five 1997 */
  access = t47f(i);
  if access in (98,99) then access = 0;
/* end access  */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (q38a(i) ne .) and (q38b(i) eq .) ) then wk_mode = q38a(i);
  else if ( (2 < q38a(i) < 6) and (q38b(i) ne .) )  then wk_mode = q38a(i);
  else if ( (2 < q38b(i) < 6) and (q38a(i) ne .) )  then wk_mode = q38b(i);
  /*  recodes changed for Wave Two 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
```

```
  if compress(mode_f) eq '.' then mode_f = '  ';
  wk_mode = .;

/*  end mode type */

/*  party/charter cost info   12/29/97 */
   if compress(mode_f) in ('6','7') then do;
     pccost = pccostra(i);
     if pccosta(i) eq 1 then pccost = 0;
     if pccosta(i) in (77,98,99) then pccost = (pccosta(i) * 100);
     pcpaid = pcpaida(i);
     pcnum  = pcnumra(i);
     if pcnuma(i) in (77,98,99) then pcnum = (pcnuma(i) * 10);  /* no 0 */
     pctype = pctypea(i);
   end;

  foreign = q90f(i);

  if q89f(i) eq 1 then salmon = 1;

  if ( (compress(mode_f) in ('6','7')) and (q40(i) eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40(i) gt . then do;     /*  added 4/16/97  */
    crewcode = q40(i);
    output current.crewflag;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q70f(i) eq 1 then st = st_res;
  else if ( 0 < t63f(i) < 54) then st = t63f(i);
  else if t63f(i) in (72,78) then st = t63f(i);  /*  PR/VI   1/13/2000 */
  else if t63f(i) eq 55 then st = 97;  /*  other state - put aside */
  else if t63f(i) eq 77 then st = 77;  /*  no details */
  else if t63f(i) eq 98 then st = 98;  /*  don't know / refused */
  else if t63f(i) eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;    lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;   /* added 5/8/98 */

/*  county of trip  */
  cnty = bf_cnty(i);
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = bf_where(i);

/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
```

```
   if (WA2Af(i) eq 1) then cutoff = 2;
     else if (WA2Af(i) eq 2) then cutoff = 1;
        else cutoff = WA2Af(i);
  end;
/*  end cutoff */

/*  river of trip */
   if st eq 6 then do;
     river = t57f(i);
     cutoff = t58f(i);
   end;
   if st eq 41 then do;
     river = t59f(i);
     cutoff = t60f(i);
   end;
   if st eq 53 then do;
      river = WA1f(i);
      cutoff = WA2f(i);
   end;
/*  end river  */

/*  Potomic river */
potriver = bfpotriv(i);

   tripnuma = i;
   tripnumb = 0.2;

  if compress(mode_f) ne '' then output current.ftcrecon;

end;   /*  end of first boat trip loop processing */


do i = 1 to 6;   /*  second boat loop processing  */

/* initialize all loop-type variables  */
   date_trp = ' ';  mode_f = '  ';   area = ' ';
   salmon = .;  weekend = . ;    cnty = .;
   time = .; launch = .; foreign = .; mode_fx = '  ';
   sub_reg = .; trip_flg = .; river = .;  access = .;
   cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
   mm = ' ';  dd = ' '; back_to = ' ';
   pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
   potriver = .;

   punch = wa60(i);   /* added for wave 4  */

/*  date of trip  */
   if q34a(i) in (98,99) then weekend = 9;
   dd = q34b(i);
   if upcase(q34b(i)) eq 'WE' then do;
      weekend = 2;
      dd = '00';
   end;
   if upcase(q34b(i)) eq 'WD' then do;
```

```
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51s(i);
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 */
  if t47s(i) in (98,99) then launch = 0;
  if t48s(i) in (98,99) then launch = 0;
  if t49s(i) in (98,99) then launch = 0;
  if ( 0 < t48s(i) < 5) then launch = t48s(i);
/* Added Wave Two 2000 for change to question 48 */
  if t48s(i)=4 then launch=7;
  if t48s(i)=5 then launch=4;
  if ( 0 < t49s(i) < 5) then launch = t49s(i) + 4;
/*  end launch */

/* area of trip */
  if t55s(i) in (98,99) then area = '9';
    else if t55s(i) eq 77 then area = ' ';
    else area = t55s(i);
  if area eq '4' and t61s(i) eq 1 then area = '1';
  if area eq '5' and t62s(i) eq 1 then area = '1';
/* end area */

/* access - was "launch" before Wave Five 1997 */
  access = t47s(i);
  if access in (98,99) then access = 0;
/* end access */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (2 < q38a(i) < 6) and (q38b(i) ne .) )  then wk_mode = q38b(i);
  else if ( (2 < q38b(i) < 6) and (q38a(i) ne .) )  then wk_mode = q38a(i);
  /*  recodes changed for Wave Two 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
```

```
   if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
   if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
   if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
   if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
   if compress(mode_f) eq '.' then mode_f = '  ';
   wk_mode = .;

/*  end mode type */

/*  party/charter cost info   12/29/97 */
    if compress(mode_f) in ('6','7') then do;
      pccost = pccostra(i);
      if pccosta(i) eq 1 then pccost = 0;
      if pccosta(i) in (77,98,99) then pccost = (pccosta(i) * 100);
      pcpaid = pcpaida(i);
      pcnum  = pcnumra(i);
      if pcnuma(i) in (77,98,99) then pcnum = (pcnuma(i) * 10);  /* no 0 */
      pctype = pctypea(i);
    end;

   foreign = q66s(i);

   if q65s(i) eq 1 then salmon = 1;

   if ( (compress(mode_f) in ('6','7')) and (q40(i) eq 1) ) then crewman = 1;  /*  wave 4  */

   if q40(i) gt . then do;     /*  added 4/16/97  */
     crewcode = q40(i);
     output current.crewflag;
   end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
   if q46s(i) eq 1 then st = st_res;
   else if ( 0 < t63s(i) < 54) then st = t63s(i);
   else if t63s(i) in (72,78) then st = t63s(i);  /*  PR/VI   1/13/2000 */
   else if t63s(i) eq 55 then st = 97;  /*  other state - put aside */
   else if t63s(i) eq 77 then st = 77;  /*  no details */
   else if t63s(i) eq 98 then st = 98;  /*  don't know / refused */
   else if t63s(i) eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
   then st = 97;     lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;   /* added 5/8/98 */

/*  county of trip  */
   cnty = bs_cnty(i);
   if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
   back_to = bs_where(i);
```

```
/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
  if (cutoff eq .) then do;
    if (WA2As(i) eq 1) then cutoff = 2;
      else if (WA2As(i) eq 2) then cutoff = 1;
         else cutoff = WA2As(i);
  end;
/*  end cutoff */

/*  river of trip */
   if st eq 6 then do;
      river = t57s(i);
      cutoff = t58s(i);
   end;
   if st eq 41 then do;
     river = t59s(i);
     cutoff = t60s(i);
   end;
   if st eq 53 then do;
      river = WA1s(i);
      cutoff = WA2s(i);
   end;
/*  end river  */

/*  Potomac river */
potriver = bspotriv(i);

   tripnuma = i;
   tripnumb = 0.3;

 if compress(mode_f) ne '  ' then output current.ftcrecon;

end;   /*  end of second boat trip loop processing */

/*  get dates with no modes  */

do i = 1 to 6;

/* initialize all loop-type variables  */

   date_trp = ' ';  mode_f = '  ';   area = ' ';
   salmon = .;  weekend = . ;    cnty = .;
   time = .; launch = .; foreign = .; mode_fx =  '  ';
   sub_reg = .; trip_flg = .; river = .;  access = .;
   cnty = .;  punch = .;  st = .;  cutoff = .;  crewman = .;
   mm = ' ';  dd = ' '; back_to = ' ';
   pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
   potriver = .;

/*  date of trip  */
   if q34a(i) in (98,99) then weekend = 9;
   dd = q34b(i);
   if upcase(q34b(i)) eq 'WE' then do;
```

```
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b(i)) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34(i) ne .) then mm = put(q34(i),z2.);
  if q34a(i) in (98,99) then mm = put(q34a(i),z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34(i) eq 77) and (q34b(i) eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

  tripnuma = i;
  tripnumb = 0.4;

/* output only if mode is missing */
  bl_flag = .;
  if ( (q43(i) eq .) and (q38a(i) eq .) and (q38b(i) eq .) )
    then bl_flag = 1;
  if ( (bl_flag eq 1 ) and (substr(date_trp,1,2) not eq '  ') )
    then output current.ftcrecon;
end;
run;
proc sort data=current.ftcrecon;  by codenum fshrnum tripnuma tripnumb;
options ls=80;
run;
proc freq; title 'NOAA 2000 Wave 6 - Freqs of FTCRECON';  run;
ENDSAS;
```

FILENAME: NOAATRIP.SAS

```
/*  PROGRAM NAME:  noaatrip.SAS
   NOAA
   Reads "xxxxTRIP" SAS data sets  (Reformatted with Option 5)
   and makes several (0 to 3) Type 3 Trip "Cards" in a SAS data set.
   S. Wilder   10/30/96
   Modified for Trips by S. Wilder  11/12/96
   Subregion, mode_fx, and trip_flg moved to later program in Wave Five 1996.
   Counties now come in one location per mode, not 20 locations, and
   have proper county fips code.  States now also have proper fips
   code, so lookup table no longer needed for this processing.
   Mod 4/16/97 to keep a record of all who said they were crewmen.
   This is kept in the CREWFLAG data set.
   Mod for Wave Five 1997 to swap "launch" and "Access" variables in
   boat trips, and to set shore trip access of 98 or 99 to 0.
   Mod for wave 6 1997 to add new variables pcpaid, pccost, pcnum, and pctype.
```

```
   Mod for wave 4 1998 to add new variable potriver.
*/

libname current '';
libname currpdox dbpdox 'j:\mmr\data\noaa\wave600\pprocess\tripstuf';
libname vt1 'j:\MMR\DATA\NOAA\wave600\TRACKING\DATA';
libname fisher '..\fishstuf';

options error=1 ls=150 ps=58;

data trips
    lowtrips;
  set vt1.vtw6trip;
 length codenum 8 default=4;
 format fshrnum 2. codenum 8.;

/*  put ttimesx corrections here */

 tripnum = 12+ttimesx;
 fshrnum = ftimesx;
 codenum = masterid;

 if ttimesx lt 7 then output lowtrips;
 else output trips;

run;

proc print data=lowtrips;
 title 'TTimesx LESS THAN 7';
run;
title ;

proc sort nodupkey data=trips;  by masterid fshrnum tripnum;  run;

proc sort data=fisher.ftcmain out=comb_1
  (keep=masterid fshrnum language cont77 numtrips flag tripnuma tripnumb date_trp);
  by masterid fshrnum;
run;

data comb_1b (drop = tripnuma tripnumb date_trp);
 set comb_1;
 if  ( (tripnuma eq 6) and (substr(date_trp,1,2) ne '77') );
run;

proc sort data=comb_1b nodupkey;  by masterid fshrnum;  run;

data trips currpdox.nofshr ;
  merge trips (in=trips) comb_1b (in=comb1);
  by masterid fshrnum;
  if (trips and not comb1) then do;
    output currpdox.nofshr;
  end;
  if (trips and comb1) then do;
    output trips;
```

```
  end;

run;


/*  Generate the trip variables (up to 3 per day) from the raw data */

/*  subregion, mode_fx, and trip_flg moved to later program in Wave Five */

Data current.noaatrip
        (keep = masterid codenum cnty_res reg_res st_res fshrnum
        access area salmon st time punch cnty
        tripnuma tripnumb date_trp weekend
        launch foreign for_bass kep_bass num_bass
        mode_f mode_fx sub_reg subreg wave year
        cont77   numtrips date1 trip_flg river cutoff
        language crewman flag back_to pccost pcpaid pcnum pctype

        coast realcnty realreg realsub
        potriver
        )
   current.crewflag (keep = codenum fshrnum crewcode tripnuma tripnumb wave year)
   current.allsamea (keep = codenum fshrnum cont77 triplast)
   ;
   length codenum date1 tripnumb 8 default=4;
NEXT: set trips;

format area mode_f mode_fx $2. date_trp $6. trip_flg 1.
      date1 datetime13. crewman 1. cnty_res 3. st_res 2. flag $4.
      mm $2. dd $2. back_to $15. reg_res 2.;

if _N_ eq 1 then date1 = datetime();
retain date1;

/*  See if there's anything to process */

if flag eq 'MISS' then go to NEXT;  /*  not fisher */
if flag eq 'NONE' then do;   /* said fisher, but 0 trips */
  go to NEXT;
end;

st_res = substr(fipscode,1,2);
cnty_res = substr(fipscode,3,3);
wave = 6;  year = 2000;
cntyb1 = cnty;
cnty = .;



/* added 5/9/97 for all remaining trips same flag */
if q34 eq 70 then do;
  q34 = 77;
  cont77 = 4;
  triplast = ttimesx;
```

```
  output current.allsamea;
end;

/* recode for wrong subregion - added 9/23/96 */
if (st_res eq 6) and (cnty_res eq 79) then subreg = 2;

REG_RES = SUBREG;   /*  8/12/96 Reg_res in NOAA data is really subregion of res.  */

/*  get party/charter values, save for later  12/29/97 */
 format spccost 4. spcpaid 2. spcnum 3. spctype 2.;
 spccost = pccost_r;
 if pccost eq 1 then spccost = 0;
 if pccost in (77,98,99) then spccost = (pccost * 100);
 spcpaid = pcpaid;
 spcnum = pcnum_r;
 if pcnum in (77,98,99) then spcnum = (pcnum * 10);   /* no 0 */
 spctype = pctype;

/*  SHORE TRIP  */
/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = '  ';   area = ' ';
  salmon = .;  weekend = . ;  cnty = .;
  time = .; launch = .; foreign = .; mode_fx =  '  ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .; crewman = .;
  mm = ' ';  dd = ' ';  back_to = ' ';
  pccost = .;  pcpaid = .; pcnum = .; pctype = .;
  potriver = .;

  access = t81;
  if access in (98,99) then access = 0;

  punch = wa_105g;   /* added for wave 4 */

  if t84 in (98,99) then area = '9';
    else if t84 eq 77 then area = ' ';
    else area = t84;
  if area eq '4' and t91 eq 1 then area = '1';
  if area eq '5' and t92 eq 1 then area = '1';

  if t94 eq 1 then salmon = 1;

  /*  mode_f  - changed for wave 4 changed for Wave Two 2000
      q43 shore mode responses are all +1 and 0=Pier */
  if q43 in (77,98,99) then mode_f = '10';
    else mode_f = q43-1;
  if compress(mode_f) eq '.' then mode_f = '  ';

/*  date of trip  */
  if q34a in (98,99) then weekend = 9;
  dd = q34b;
  if upcase(q34b) eq 'WE' then do;
    weekend = 2;
    dd = '00';
```

```
  end;
  if upcase(q34b) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t82;
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q94 eq 1 then st = st_res;
  else if ( 0 < t93 < 54) then st = t93;
  else if t93 in (72,78) then st = t93;  /*  PR/VI    1/13/2000 */
  else if t93 eq 55 then st = 97;  /*  other state - put aside */
  else if t93 eq 77 then st = 77;  /*  no details */
  else if t93 eq 98 then st = 98;  /*  don't know / refused */
  else if t93 eq 99 then st = 99;  /*  refused */
end;

/*
if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;    lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;   /* AK/HI/TX added 5/8/98 */

/*  county of trip  */
  cnty = cnty97;
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = citot2;

/*  subregion and mode_fx processing moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA4A eq 1) then cutoff = 2;
     else if (WA4A eq 2) then cutoff = 1;
```

```
        else cutoff = WA4A;
  end;
/*  end cutoff */

/*  river of trip */
   if st eq 6 then do;
      river = t85;
      cutoff = t86;
   end;
   if st eq 41 then do;
      river = t87;
      cutoff = t89;
   end;
   if st eq 53 then do;
     river = WA3;
     cutoff = WA4;
   end;
/*  end river */

/* Potomac river */
potriver = potomb;

/*  'day-trip' work variables for later  */
   tripnuma = ttimesx;
   tripnumb = 0.1;

   launch = .;  foreign = .;
   for_bass = .;  kep_bass = .;  num_bass = .;

  if compress(mode_f) ne '' then output current.noaatrip;

/*  end of shore loop processing  */

/*   END OF SHORE LOOP  */

/*  first boat loop processing  */

/* initialize all loop-type variables  */
   date_trp = ' ';  mode_f = '  ';   area = ' ';
   salmon = .;  weekend = . ;   cnty = .;
   time = .; launch = .; foreign = .; mode_fx = '  ';
   sub_reg = .; trip_flg = .; river = .;  access = .;
   cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
   mm = ' ';  dd = ' '; back_to = ' ';
   pccost = .;  pcpaid = .; pcnum = .; pctype = .;
   potriver = .;

   punch = wa_84g;   /* added for wave 4  */

/*  date of trip  */
   if q34a in (98,99) then weekend = 9;
   dd = q34b;
   if upcase(q34b) eq 'WE' then do;
      weekend = 2;
```

```
    dd = '00';
  end;
  if upcase(q34b) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51;
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 */
  if t47 in (98,99) then launch = 0;
  if t48 in (98,99) then launch = 0;
  if t49 in (98,99) then launch = 0;
  if ( 0 < t48 < 5) then launch = t48;
  if ( 0 < t49 < 5) then launch = t49 + 4;
/*  end launch */

/* area of trip */
  if t55 in (98,99) then area = '9';
    else if t55 eq 77 then area = ' ';
    else area = t55;
  if area eq '4' and t61 eq 1 then area = '1';
  if area eq '5' and t62 eq 1 then area = '1';
/* end area */

/* access - was "launch" before Wave Five 1997 */
  access = t47;
  if access in (98,99) then access = 0;
/* end access  */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (q38_1 ne .) and (q38_2 eq .) ) then wk_mode = q38_1;
  else if ( (2 < q38_1 < 6) and (q38_2 ne .) )  then wk_mode = q38_1;
  else if ( (2 < q38_2 < 6) and (q38_1 ne .) )  then wk_mode = q38_2;
  /*  recodes changed for Wave Two 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
```

```
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
  if compress(mode_f) eq '.' then mode_f = '  ';
  wk_mode = .;

/*  end mode type */

/*  party/charter cost info  12/29/97 */
 if compress(mode_f) in ('6','7') then do;
    pccost = spccost;
    pcpaid = spcpaid;
    pcnum = spcnum;
    pctype = spctype;
  end;


  foreign = q90;

  if q89 eq 1 then salmon = 1;

  if ( (compress(mode_f) in ('6','7')) and (q40 eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40 gt . then do;    /* added 4/16/97  */
    crewcode = q40;
    output current.crewflag;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q70 eq 1 then st = st_res;
  else if ( 0 < t63 < 54) then st = t63;
  else if t63 in (72,78) then st = t63;  /*  PR/VI    1/13/2000 */
  else if t63 eq 55 then st = 97;  /*  other state - put aside */
  else if t63 eq 77 then st = 77;  /*  no details */
  else if t63 eq 98 then st = 98;  /*  don't know / refused */
  else if t63 eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;    lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;   /* AK/HI/TX added 5/8/98 */

/*  county of trip  */
  cnty = cntyb1;
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = citot;

/*  subregion and mode_fx moved to later program in Wave Five */
```

```
/*  cutoff for other rivers - added for wave 4  */
  if (cutoff eq .) then do;
    if (WA2A eq 1) then cutoff = 2;
      else if (WA2A eq 2) then cutoff = 1;
         else cutoff = WA2A;
  end;
/*  end cutoff */

/*  river of trip */
   if st eq 6 then do;
     river = t57;
     cutoff = t58;
   end;
   if st eq 41 then do;
     river = t59;
     cutoff = t60;
   end;
   if st eq 53 then do;
      river = WA1;
      cutoff = WA2;
   end;
/*  end river  */

/* Potomac river */
potriver = potom;

   tripnuma = ttimesx;
   tripnumb = 0.2;

  if compress(mode_f) ne '' then output current.noaatrip;

/*  end of first boat trip loop processing */


/*  second boat loop processing  */

/* initialize all loop-type variables  */
   date_trp = ' ';  mode_f = '  ';   area = ' ';
   salmon = .;  weekend = . ;    cnty = .;
   time = .; launch = .; foreign = .; mode_fx = '  ';
   sub_reg = .; trip_flg = .; river = .;  access = .;
   cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
   mm = ' ';  dd = ' '; back_to = ' ';
   pccost = .;  pcpaid = .; pcnum = .; pctype = .;
   potriver = .;

   punch = wa_60g;   /* added for wave 4  */

/*  date of trip  */
   if q34a in (98,99) then weekend = 9;
   dd = q34b;
   if upcase(q34b) eq 'WE' then do;
     weekend = 2;
     dd = '00';
```

```
  end;
  if upcase(q34b) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51_g;
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 */
  if t47_g in (98,99) then launch = 0;
  if t48_g in (98,99) then launch = 0;
  if t49_g in (98,99) then launch = 0;
  if ( 0 < t48_g < 5) then launch = t48_g;
  if ( 0 < t49_g < 5) then launch = t49_g + 4;
/*  end launch */

/* area of trip */
  if t55_g in (98,99) then area = '9';
    else if t55_g eq 77 then area = ' ';
     else area = t55_g;
  if area eq '4' and t61_g eq 1 then area = '1';
  if area eq '5' and t62_g eq 1 then area = '1';
/* end area */

/* access - was "launch" before Wave Five 1997 */
  access = t47_g;
  if access in (98,99) then access = 0;
/* end access */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (2 < q38_1 < 6) and (q38_2 ne .) )  then wk_mode = q38_2;
  else if ( (2 < q38_2 < 6) and (q38_1 ne .) )  then wk_mode = q38_1;
  /*  recodes changed for Wave Two 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
```

```
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
  if compress(mode_f) eq '.' then mode_f = '  ';
  wk_mode = .;

/*  end mode type */

/*  party/charter cost info  12/29/97 */
 if compress(mode_f) in ('6','7') then do;
    pccost = spccost;
    pcpaid = spcpaid;
    pcnum = spcnum;
    pctype = spctype;
  end;

  foreign = q66;

  if q65 eq 1 then salmon = 1;

  if ( (compress(mode_f) in ('6','7')) and (q40 eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40 gt . then do;    /* added 4/16/97  */
     crewcode = q40;
     output current.crewflag;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q46 eq 1 then st = st_res;
  else if ( 0 < t63_g < 54) then st = t63_g;
  else if t63_g in (72,78) then st = t63_g;  /*  PR/VI    1/13/2000 */
  else if t63_g eq 55 then st = 97;  /*  other state - put aside */
  else if t63_g eq 77 then st = 77;  /*  no details */
  else if t63_g eq 98 then st = 98;  /*  don't know / refused */
  else if t63_g eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;     lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;   /* AK/HI/TX added 5/8/98 */

/*  county of trip  */
  cnty = cnty_g;
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = citot_g;

/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
```

```
   if (WA2A_g eq 1) then cutoff = 2;
     else if (WA2A_g eq 2) then cutoff = 1;
        else cutoff = WA2A_g;
  end;
/*  end cutoff */

/*  river of trip */
   if st eq 6 then do;
     river = t57_g;
     cutoff = t58_g;
   end;
   if st eq 41 then do;
    river = t59_g;
    cutoff = t60_g;
   end;
   if st eq 53 then do;
     river = WA1_g;
     cutoff = WA2_g;
   end;
/*  end river  */

/* Potomac river */
potriver = potom_g;

   tripnuma = ttimesx;
   tripnumb = 0.3;

 if compress(mode_f) ne '' then output current.noaatrip;

/*  end of second boat trip loop processing */

/*  get dates with no modes  */


/* initialize all loop-type variables  */

   date_trp = ' ';  mode_f = '  ';   area = ' ';
   salmon = .;  weekend = . ;    cnty = .;
   time = .; launch = .; foreign = .; mode_fx =  '  ';
   sub_reg = .; trip_flg = .; river = .;  access = .;
   cnty = .;  punch = .;  st = .;  cutoff = .;  crewman = .;
   mm = ' ';  dd = ' '; back_to = ' ';
   pccost = .;  pcpaid = .; pcnum = .; pctype = .;
   potriver = .;

/*  date of trip  */
   if q34a in (98,99) then weekend = 9;
   dd = q34b;
   if upcase(q34b) eq 'WE' then do;
     weekend = 2;
     dd = '00';
   end;
   if upcase(q34b) eq 'WD' then do;
     weekend = 1;
```

```
     dd = '00';
   end;
   if ( (length(dd) eq 1) and (dd ne ' ') )
      then dd = '0' || dd;
   if (q34 ne .) then mm = put(q34,z2.);
   if q34a in (98,99) then mm = put(q34a,z2.);
   date_trp = mm || dd || '01';
   if mm in ('10','11','12') then date_trp = mm || dd || '00';
   /*  need to process 77 - "can't remember" - q34 can be 77 */
   if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
   /*  also need to process "no more trips"  month code is 66 in Wave Five */
   if mm eq '66' then date_trp = '777700';
/* end date */

   tripnuma = ttimesx;
   tripnumb = 0.4;

/* output only if mode is missing */
   bl_flag = .;
   if ( (q43 eq .) and (q38_1 eq .) and (q38_2 eq .) )
     then bl_flag = 1;
   if ( (bl_flag eq 1 ) and (substr(date_trp,1,2) not eq '  ') )
     then output current.noaatrip;
run;
proc sort data=current.noaatrip;  by codenum fshrnum tripnuma tripnumb;
options ls=80;
run;
proc contents;  run;
proc freq; title 'NOAA 2000 Wave 6 - Freqs of NOAATRIP';
run;
ENDSAS;
```

FILENAME: NOAATRIP.SAS - FOR RECONTACT STUDY ONLY

```
/*  PROGRAM NAME:  noaatrip.SAS   FOR RECONTACT STUDY ONLY    NOAA
    Reads "xxxxTRIP" SAS data sets  (Reformatted with Option 5)
    and makes several (0 to 18) Type 3 Trip "Cards" in a SAS data set.
    S. Wilder   10/30/96
    Modified for Trips by S. Wilder  11/12/96
    Subregion, mode_fx, and trip_flg moved to later program in Wave Five 1996.
    Counties now come in one location per mode, not 20 locations, and
    have proper county fips code.  States now also have proper fips
    code, so lookup table no longer needed for this processing.
    Mod 4/16/97 to keep a record of all who said they were crewmen.
    This is kept in the CREWFLG2 data set.
    Mod for Wave Five 1997 to swap "launch" and "access" variables in
    boat trips, and to recode shore trip access values of 98 and 99 to 0.
    Mod for Wave 6 1997 to process new variables pccost, pcpaid, pcnum,
    and pctype.
    Mod wave 4 1998 for new variable potriver.
*/

libname current '';
```

```
libname currpdox dbpdox 'j:\mmr\data\noaa\wave600\pprocess\recontct';
libname vt1 'j:\MMR\DATA\NOAA\wave600\TRACKING\DATA';
libname fisher '';

options error=1 ls=150 ps=58;

data trips
    lowtrips;
  set vt1.trip456;
 length codenum 8 default=4;
 format codenum 8.;

 /*  ttimesx corrections here */

 tripnum = 12+ttimesx;
 codenum = masterid;

 if ttimesx lt 7 then output lowtrips;
 else output trips;
run;

/*  Put in the fisher numbers  */
proc sort data=trips;  by masterid /*  segment */ ;  run;
proc sort data=current.fishnum;  by masterid /* segment */;  run;

data trips2;
 merge trips (in=all) current.fishnum (in=num);
 by masterid /* segment */;
 if all;
 if not num then put 'MISSING FISHER' masterid segment;
run;

proc sort;  by masterid fshrnum tripnum;  run;


proc sort data=fisher.ftcrecon out=comb_1 (keep=masterid fshrnum language cont77 numtrips flag tripnuma
tripnumb date_trp) ;
  by masterid fshrnum;
run;

data comb_1b (drop = tripnuma tripnumb);
 set comb_1;
 if ( (tripnuma eq 6) and (substr(date_trp,1,2) ne '77') );
run;

proc sort data=comb_1b nodupkey;  by masterid fshrnum;  run;

data trips currpdox.nofshr ;
  merge trips2 (in=trips) comb_1b (in=comb1);
  by masterid fshrnum;
  if (trips and not comb1) then do;
    output currpdox.nofshr;
  end;
  if (trips and comb1) then do;
```

```
    output trips;
  end;

run;


/*  Generate the trip variables (up to 3 per day) from the raw data */

/*  subregion, mode_fx, and trip_flg moved to later program in Wave Five */

Data current.noaatrip
        (keep = masterid codenum cnty_res reg_res st_res fshrnum
        access area salmon st time punch cnty
        tripnuma tripnumb date_trp weekend
        launch foreign for_bass kep_bass num_bass
        mode_f mode_fx sub_reg subreg wave year
        cont77 i numtrips date1 trip_flg river cutoff
        language crewman flag back_to pccost pcpaid pcnum pctype
        coast realcnty realreg realsub
        potriver
        )
   current.crewflg2 (keep = codenum fshrnum crewcode tripnuma tripnumb wave year)
   current.allsama2 (keep = codenum fshrnum cont77 triplast)
   ;
   length codenum date1 tripnumb 8 default=4;
NEXT: set trips;

format area mode_f mode_fx $1. date_trp $6. trip_flg 1.
      date1 datetime13. crewman 1. cnty_res 3. st_res 2. flag $4.
      mm $2. dd $2. back_to $15. reg_res 2.;

if _N_ eq 1 then date1 = datetime();
retain date1;

/*  See if there's anything to process */

if flag eq 'MISS' then go to NEXT;  /*  not fisher */
if flag eq 'NONE' then do;   /* said fisher, but 0 trips */
  go to NEXT;
end;

st_res = substr(fipscode,1,2);
cnty_res = substr(fipscode,3,3);
wave = 6;  year = 2000;
cntyb1 = cnty;
cnty = .;

/* added 5/9/97 for all remaining trips same flag */
if q34 eq 70 then do;
  q34 = 77;
  cont77 = 4;
  triplast = ttimesx;
  output current.allsama2;
end;
```

```
/* recode for wrong subregion - added 9/23/96 */
if (st_res eq 6) and (cnty_res eq 79) then subreg = 2;

REG_RES = SUBREG;   /*  8/12/96 Reg_res in NOAA data is really subregion of res.  */

/*  get party/charter values, save for later */
  format spccost 4. spcpaid 2. spcnum 3. spctype 2.;
  spccost = pccost_r;
  if pccost eq 1 then spccost = 0;
  if pccost in (77,98,99) then spccost = (pccost * 100);
  spcpaid = pcpaid;
  spcnum = pcnum_r;
  if pcnum in (77,98,99) then spcnum = (pcnum * 10);   /* no 0 */
  spctype = pctype;


/*  SHORE TRIP  */
/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = ' ';   area = ' ';
  salmon = .;  weekend = . ;  cnty = .;
  time = .; launch = .; foreign = .; mode_fx =  ' ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .; crewman = .;
  mm = ' ';  dd = ' ';  back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

  access = t81;
  if access in (98,99) then access = 0;  /* added Wave Five 1997 */

  punch = wa_105g;   /* added for wave 4 */

  if t84 in (98,99) then area = '9';
    else if t84 eq 77 then area = ' ';
    else area = t84;
  if area eq '4' and t91 eq 1 then area = '1';
  if area eq '5' and t92 eq 1 then area = '1';

  if t94 eq 1 then salmon = 1;

  /*  mode_f  - changed for wave 4 changed for Wave 2 2000
      q43 shore mode responses are all +1 and 0=Pier */
  if q43 in (77,98,99) then mode_f = '10';
    else mode_f = q43-1;
  if compress(mode_f) eq '.' then mode_f = '  ';

/*  date of trip  */
  if q34a in (98,99) then weekend = 9;
  dd = q34b;
  if upcase(q34b) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b) eq 'WD' then do;
```

```
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t82;
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q94 eq 1 then st = st_res;
  else if ( 0 < t93 < 54) then st = t93;
  else if t93 in (72,78) then st = t93;   /*  PR/VI  1/13/2000 */
  else if t93 eq 55 then st = 97;  /*  other state - put aside */
  else if t93 eq 77 then st = 77;  /*  no details */
  else if t93 eq 98 then st = 98;  /*  don't know / refused */
  else if t93 eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;     lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;  /* added 5/8/98 */

/*  county of trip  */
  cnty = cnty97;
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = citot2;

/*  subregion and mode_fx processing moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA4A eq 1) then cutoff = 2;
     else if (WA4A eq 2) then cutoff = 1;
        else cutoff = WA4A;
 end;
/*  end cutoff */
```

```
/*  river of trip */
  if st eq 6 then do;
    river = t85;
    cutoff = t86;
  end;
  if st eq 41 then do;
    river = t87;
    cutoff = t89;
  end;
  if st eq 53 then do;
   river = WA3;
   cutoff = WA4;
  end;
/*  end river */

/*  Potomac river */
potriver = potomb;

/*  'day-trip' work variables for later  */
  tripnuma = ttimesx;
  tripnumb = 0.1;

  launch = .;  foreign = .;
  for_bass = .;  kep_bass = .;  num_bass = .;

 if mode_f ne ' ' then output current.noaatrip;

/*  end of shore loop processing  */

/*   END OF SHORE LOOP  */

/*  first boat loop processing  */

/* initialize all loop-type variables  */
  date_trp = ' ';  mode_f = ' ';   area = ' ';
  salmon = .;  weekend = . ;   cnty = .;
  time = .; launch = .; foreign = .; mode_fx = ' ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
  mm = ' ';  dd = ' '; back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

  punch = wa_84g;   /* added for wave 4  */

/*  date of trip  */
  if q34a in (98,99) then weekend = 9;
  dd = q34b;
  if upcase(q34b) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b) eq 'WD' then do;
    weekend = 1;
```

```
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51;
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 */
  if t47 in (98,99) then launch = 0;
  if t48 in (98,99) then launch = 0;
  if t49 in (98,99) then launch = 0;
  if ( 0 < t48 < 5) then launch = t48;
  if ( 0 < t49 < 5) then launch = t49 + 4;
/*  end launch */

/* area of trip */
  if t55 in (98,99) then area = '9';
    else if t55 eq 77 then area = ' ';
     else area = t55;
  if area eq '4' and t61 eq 1 then area = '1';
  if area eq '5' and t62 eq 1 then area = '1';
/* end area */

/* access - was "launch" before Wave Five 1997 */
  access = t47;
  if access in (98,99) then access = 0;
/* end access  */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (q38_1 ne .) and (q38_2 eq .) ) then wk_mode = q38_1;
  else if ( (2 < q38_1 < 6) and (q38_2 ne .) )  then wk_mode = q38_1;
  else if ( (2 < q38_2 < 6) and (q38_1 ne .) )  then wk_mode = q38_2;
  /*  recodes changed for Wave 2 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
```

```
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
  if compress(mode_f) eq '.' then mode_f = '  ';
  wk_mode = .;

/*  end mode type */

/* party/charter cost info   12/29/97 */
 if compress(mode_f) in ('6','7') then do;
   pccost = spccost;
   pcpaid = spcpaid;
   pcnum = spcnum;
   pctype = spctype;
 end;

  foreign = q90;

  if q89 eq 1 then salmon = 1;

  if ( (mode_f in ('6','7')) and (q40 eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40 gt . then do;    /* added 4/16/97  */
    crewcode = q40;
    output current.crewflg2;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q70 eq 1 then st = st_res;
  else if ( 0 < t63 < 54) then st = t63;
  else if t63 in (72,78) then st = t63;   /*  PR/VI  1/13/2000 */
  else if t63 eq 55 then st = 97;  /*  other state - put aside */
  else if t63 eq 77 then st = 77;  /*  no details */
  else if t63 eq 98 then st = 98;  /*  don't know / refused */
  else if t63 eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;    lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;  /* added 5/8/98 */

/*  county of trip  */
  cnty = cntyb1;
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = citot;

/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA2A eq 1) then cutoff = 2;
     else if (WA2A eq 2) then cutoff = 1;
```

```
        else cutoff = WA2A;
  end;
/*  end cutoff */

/*  river of trip */
   if st eq 6 then do;
     river = t57;
     cutoff = t58;
   end;
   if st eq 41 then do;
     river = t59;
     cutoff = t60;
   end;
   if st eq 53 then do;
      river = WA1;
      cutoff = WA2;
   end;
/*  end river  */

/*  Potomac river */
potriver = potom;

   tripnuma = ttimesx;
   tripnumb = 0.2;

  if mode_f ne ' ' then output current.noaatrip;

/*  end of first boat trip loop processing */


/*  second boat loop processing  */

/* initialize all loop-type variables  */
   date_trp = ' ';  mode_f = ' ';   area = ' ';
   salmon = .;  weekend = . ;    cnty = .;
   time = .; launch = .; foreign = .; mode_fx = ' ';
   sub_reg = .; trip_flg = .; river = .;  access = .;
   cnty = .;  punch = .;  st = .; cutoff = .;  crewman = .;
   mm = ' ';  dd = ' '; back_to = ' ';
   pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
   potriver = .;

   punch = wa_60g;   /* added for wave 4  */

/*  date of trip  */
   if q34a in (98,99) then weekend = 9;
   dd = q34b;
   if upcase(q34b) eq 'WE' then do;
      weekend = 2;
      dd = '00';
   end;
   if upcase(q34b) eq 'WD' then do;
      weekend = 1;
      dd = '00';
```

```
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

/*  time of trip */
  time = t51_g;
  if time = 25 then time = -1;
  if time = 26 then time = -3;
  if time in (98,99) then time = -2;
/* end time */

/*  launch - was "access" before Wave Five 1997 */
  if t47_g in (98,99) then launch = 0;
  if t48_g in (98,99) then launch = 0;
  if t49_g in (98,99) then launch = 0;
  if ( 0 < t48_g < 5) then launch = t48_g;
  if ( 0 < t49_g < 5) then launch = t49_g + 4;
/*  end launch */

/* area of trip */
  if t55_g in (98,99) then area = '9';
    else if t55_g eq 77 then area = ' ';
     else area = t55_g;
  if area eq '4' and t61_g eq 1 then area = '1';
  if area eq '5' and t62_g eq 1 then area = '1';
/* end area */

/* access - was "launch" before Wave Five 1997 */
  access = t47_g;
  if access in (98,99) then access = 0;
/* end access */

/* mode type */
  /* changed for wave 4 */
  wk_mode = .;
  if ( (2 < q38_1 < 6) and (q38_2 ne .) )  then wk_mode = q38_2;
  else if ( (2 < q38_2 < 6) and (q38_1 ne .) )  then wk_mode = q38_1;
  /*  recodes changed for Wave 2 2000 */
  if wk_mode eq 1 then mode_f = ' 6';   /*  Party boat */
  if wk_mode eq 2 then mode_f = ' 7';   /*  Charter Boat */
  if wk_mode eq 3 then mode_f = ' 8';   /*  Private Boat */
  if wk_mode eq 4 then mode_f = ' 9';   /*  Rental Boat  */
  if wk_mode eq 5 then mode_f = '11';   /*  Boat unknown type */
  if wk_mode in (77,98,99) then mode_f = '10';   /* skip DK RF */
  if compress(mode_f) eq '.' then mode_f = '  ';
```

```
  wk_mode = .;

/*  end mode type */

/* party/charter cost info   12/29/97 */
 if compress(mode_f) in ('6','7') then do;
   pccost = spccost;
   pcpaid = spcpaid;
   pcnum = spcnum;
   pctype = spctype;
 end;
   foreign = q66;

  if q65 eq 1 then salmon = 1;

  if ( (mode_f in ('6','7')) and (q40 eq 1) ) then crewman = 1;  /*  wave 4  */

  if q40 gt . then do;    /* added 4/16/97  */
    crewcode = q40;
    output current.crewflg2;
  end;

/* state of trip  */
if flag eq 'IN' then st = st_res;  /*  state of in-state trips only  */
if flag in ('OUT','BOTH') then do;
  if q46 eq 1 then st = st_res;
  else if ( 0 < t63_g < 54) then st = t63_g;
  else if t63_g in (72,78) then st = t63_g;   /*  PR/VI  1/13/2000 */
  else if t63_g eq 55 then st = 97;  /*  other state - put aside */
  else if t63_g eq 77 then st = 77;  /*  no details */
  else if t63_g eq 98 then st = 98;  /*  don't know / refused */
  else if t63_g eq 99 then st = 99;  /*  refused */
end;

/* if ( (st eq 48) and (st_res not in (2,15,48)) )
  then st = 97;     lump Texas with 'other' state for most */
if st in (2,15,48) then st = 97;  /* added 5/8/98 */

/*  county of trip  */
  cnty = cnty_g;
  if cnty eq 0 then cnty = 777;

/*  other info on trip location  */
  back_to = citot_g;

/*  subregion and mode_fx moved to later program in Wave Five */

/*  cutoff for other rivers - added for wave 4  */
 if (cutoff eq .) then do;
   if (WA2A_g eq 1) then cutoff = 2;
     else if (WA2A_g eq 2) then cutoff = 1;
       else cutoff = WA2A_g;
 end;
/*  end cutoff */
```

```
/*  river of trip */
  if st eq 6 then do;
    river = t57_g;
    cutoff = t58_g;
  end;
  if st eq 41 then do;
   river = t59_g;
   cutoff = t60_g;
  end;
  if st eq 53 then do;
    river = WA1_g;
    cutoff = WA2_g;
  end;
/*  end river  */

/*  Potomac river */
potriver = potom_g;


  tripnuma = ttimesx;
  tripnumb = 0.3;

 if mode_f ne ' ' then output current.noaatrip;

/*  end of second boat trip loop processing */

/*  get dates with no modes  */


/* initialize all loop-type variables  */

  date_trp = ' ';  mode_f = ' ';   area = ' ';
  salmon = .;  weekend = . ;    cnty = .;
  time = .; launch = .; foreign = .; mode_fx =  ' ';
  sub_reg = .; trip_flg = .; river = .;  access = .;
  cnty = .;  punch = .;  st = .;  cutoff = .;  crewman = .;
  mm = ' ';  dd = ' '; back_to = ' ';
  pccost = .;  pcpaid = .;  pcnum = .;  pctype = .;
  potriver = .;

/*  date of trip  */
  if q34a in (98,99) then weekend = 9;
  dd = q34b;
  if upcase(q34b) eq 'WE' then do;
    weekend = 2;
    dd = '00';
  end;
  if upcase(q34b) eq 'WD' then do;
    weekend = 1;
    dd = '00';
  end;
  if ( (length(dd) eq 1) and (dd ne ' ') )
     then dd = '0' || dd;
  if (q34 ne .) then mm = put(q34,z2.);
```

```
  if q34a in (98,99) then mm = put(q34a,z2.);
  date_trp = mm || dd || '01';
  if mm in ('10','11','12') then date_trp = mm || dd || '00';
  /*  need to process 77 - "can't remember" - q34 can be 77 */
  if ( (q34 eq 77) and (q34b eq .) ) then date_trp = '777700';
  /*  also need to process "no more trips"  month code is 66 in Wave Five */
  if mm eq '66' then date_trp = '777700';
/* end date */

  tripnuma = ttimesx;
  tripnumb = 0.4;

/* output only if mode is missing */
  bl_flag = .;
  if ( (q43 eq .) and (q38_1 eq .) and (q38_2 eq .) )
    then bl_flag = 1;
  if ( (bl_flag eq 1 ) and (substr(date_trp,1,2) not eq '  ') )
    then output current.noaatrip;

run;
proc sort data=current.noaatrip;  by codenum fshrnum tripnuma tripnumb;
options ls=80;
run;
proc print;  run;
proc contents;  run;
proc freq; title 'NOAA 2000 Wave 6 - Freqs of RECONTACT NOAATRIP';
run;
ENDSAS;
```

FILENAME: GETREST.SAS

```
/*  NOAA Wave 6 2000
   PROGRAM NAME:  GETREST.SAS
   Gets the rest of the trip cards from \RECONTCT and \TRIPSTUF,
   adds them to FTCMAIN.SD2, and dedups.  New data set is COMB_1A.SD2.
   S. Wilder   11/11/96
   Mod 1/5/2000 to bring in "counties" for Puerto Rico and Virgin Islands
*/

options ls=80 ps=59;
libname current '';
libname RECONTCT '..\RECONTCT';
libname trips '..\TRIPSTUF';
libname t1data '..\type_1';

proc contents data=current.ftcmain; run;
proc contents data=recontct.ftcrecon; run;
*proc contents data=recontct.noaatrip; run;
proc contents data=trips.noaatrip;  run;

data current.COMB_1A;
  set current.ftcmain
      recontct.ftcrecon
```

```
      recontct.noaatrip   /*   NO 7+ trips! */
     trips.noaatrip
     ;
 if area eq '.' then area = ' ';

run;

proc sort nodupkey data=current.COMB_1A;
 by codenum fshrnum tripnuma tripnumb;
run;

proc sort data=t1data.prvicnty nodupkey;  by codenum;  run;

data current.comb_1a (drop = prcnty);
 merge current.comb_1a (in=dat) t1data.prvicnty (in=pr rename=(realcnty=prcnty));
 by codenum;
 if dat;
 if st_res in (72,78) then realcnty = prcnty;
 if ( (not pr) and (st_res in (72,78)) ) then realcnty = "998";
run;
proc freq data=current.comb_1a;
 where st_res in (72,78);
 tables st_res * (realcnty cnty_res);
run;
```

FILENAME: DUMPOPEN.SAS

```
/*  NOAA    Dumps out open-ends for coding    S. Wilder    10/31/96  */

libname current '';
data opens (keep = masterid fshrnum tripnuma tripnumb st back_to);
 set current.comb_1A;
 if cnty in (.,777,998,999) and back_to ne ' ';
 back_to = upcase(back_to);
run;

proc sort data=opens;  by st back_to masterid tripnuma tripnumb;  run;

data _null_;
 set opens;
 file 'OPENEND.DAT' lrecl=50 pad;
 put @1   masterid   $8.
    @10  fshrnum     3.
    @14  tripnuma    3.
    @18  tripnumb    2.1
    @25  st          z2.
    @34  back_to     $15.
    ;
run;
```

FILENAME: MERGOPEN.SAS

```
/*  NOAA Wave 6 2000
    Merges recoded county fips codes from open-ends with original
    data and calculates trip_flg, sub_reg for CA and FL, and
    mode_fx.    S. Wilder    10/30/96  */

options ls=80;
libname current '';
data open1;
  infile 'openend.cod' lrecl=50 missover pad;
  input @1  masterid   $8.
        @10 fshrnum     3.
        @14 tripnuma    3.
        @18 tripnumb    2.1
        @25 st          2.
        @27 cntyfips    3.
        @30 back_to    $15.
        ;
  if masterid eq ' ' then delete;
run;
proc sort data=open1;  by st cntyfips;  run;

data cnty (keep = st cntyfips);
  set current.cntyxref;
run;
proc sort;  by st cntyfips;  run;

data open2 (keep = masterid fshrnum tripnuma tripnumb st cnty);
  merge open1 (in=op) cnty (in=cnt);
  by st cntyfips;
  if op;
  if op and not cnt then cntyfips = .;
  cnty = cntyfips;
run;
proc sort data=open2;  by masterid fshrnum tripnuma tripnumb;  run;
proc datasets;  delete open1;  run;
proc sort data=current.comb_1a;  by masterid fshrnum tripnuma tripnumb;  run;
proc freq data=current.comb_1a;
   tables st*cnty / list;
   title 'COMB_1A Before Recoded Open-Ends';
run;

data current.comb_1B;
  merge current.comb_1a (in=data) open2;
  by masterid fshrnum tripnuma tripnumb;
  if data;
/*  if cnty not valid set to missing  */
if cnty in (777,998,999) then cnty = .;
/*  do the sub_reg of fishing now that more county fips codes are available */
   sub_reg = .;
   if st in (41,53)
     then sub_reg = 3;
   if st in (9,23,25,33,44)
     then sub_reg = 4;
   if st in (10,24,34,36,51)
```

```
    then sub_reg = 5;
  if st in (13,37,45)
    then sub_reg = 6;
  if st in (1,22,28)
    then sub_reg = 7;
  /*  now do FL and CA */
  if ( (st eq 6) and cnty in (37,59,65,71,73,83,111) )
  then sub_reg = 1;
  if ( (st eq 6) and cnty in
     (1,13,15,23,41,45,53,55,67,69,75,77,79,81,85,87,95,97,105,113) )
  then sub_reg = 2;
  if ( (st eq 12) and cnty in
     (3,7,9,11,19,25,31,35,61,69,85,89,93,95,97,99,107,109,111,117,125,127) )
  then sub_reg = 6;
  if ( (st eq 12) and cnty in
     (1,5,13,15,17,21,23,27,29,33,37,39,41,43,45,47,49,51,53,55,57,59,
      63,65,67,71,73,75,77,79,81,83,87,91,101,103,105,113,115,119,121,
      123,129,131,133) )
  then sub_reg = 7;
  if st in (72,78) then sub_reg = 11;    /* PR/VI   1/5/2000 */

/*  do trip flags */
  trip_flg = 9;
  if st_res not in (6,12) then do;
    if (st eq st_res) then trip_flg = 1;
    if ( (st not in (.,77,97,98,99)) and (st ne st_res) ) then trip_flg = 2;
  end;
  if ( (st_res in (6,12)) and (st not in (.,77,97,98,99)) and (st_res ne st) )
    then trip_flg = 2;
  if ( (st eq 6) and (st_res eq 6) and (reg_res eq sub_reg) ) then trip_flg = 1;
  if ( (st eq 6) and (st_res eq 6) and (reg_res ne sub_reg) and (sub_reg ne .))
    then trip_flg = 2;
  if ( (st eq 12) and (st_res eq 12) and (reg_res eq sub_reg) ) then trip_flg = 1;
  if ( (st eq 12) and (st_res eq 12) and (reg_res ne sub_reg) and (sub_reg ne .))
    then trip_flg = 2;
  if ((st in (.,77,97,98,99)) or (st_res eq .)) then trip_flg = .;

/* do mode_fx */
   mode_fx = ' ';
   if mode_f eq ' 0' then mode_fx = ' 1';
   if mode_f eq '10' then mode_fx = '10';
   if mode_f eq '11' then mode_fx = '11';
   if mode_f eq ' 8' then mode_fx = ' 7';
   if mode_f eq ' 9' then mode_fx = ' 7';

   if sub_reg <= 3 then do;
      if mode_f eq ' 5' then mode_fx = ' 2';
      if (' 0' <= mode_f <= ' 4') then mode_fx = ' 1';
      if (' 6' <= mode_f <= ' 7') then mode_fx = ' 6';
    end;
    if (4 <= sub_reg <= 5) then do;
      if (' 0' <= mode_f <= ' 5') then mode_fx = ' 3';
      if (' 6' <= mode_f <= ' 7') then mode_fx = ' 6';
    end;
```

```
   if (6 <= sub_reg <= 7) then do;
    if ( (' 0' <= mode_f <= ' 5') and (st ne 37) )
       then mode_fx = ' 3';
    if (st = 37) then do;
      if mode_f eq ' 5' then mode_fx = ' 2';
      if (' 0' <= mode_f <= ' 4') then mode_fx = ' 1';
    end;
    if mode_f eq ' 6' then mode_fx = ' 4';
    if mode_f eq ' 7' then mode_fx = ' 5';
   end;

   /*   next added 5/13/97  */
   if ((st eq 6) and (sub_reg eq .)) then do;
    if mode_f eq ' 5' then mode_fx = ' 2';
    if (' 0' <= mode_f <= ' 4') then mode_fx = ' 1';
    if (' 6' <= mode_f <= ' 7') then mode_fx = ' 6';
   end;
   if ((st eq 12) and (sub_reg eq .)) then do;
    if (' 0' <= mode_f <= ' 5') then mode_fx = ' 3';
    if mode_f eq ' 6' then mode_fx = ' 4';
    if mode_f eq ' 7' then mode_fx = ' 5';
   end;
   /*  end of 5/13/97 addition */

   /* mode_fx for Puerto Rico and Virgin Islands   1/5/2000 */
   if st in (72,78) then do;
    if (' 0' <= mode_f <= ' 5') then mode_fx = ' 3';
    if mode_f eq ' 6' then mode_fx = ' 4';
    if mode_f eq ' 7' then mode_fx = ' 5';
   end;

   /*  clean Potomac flag if state of fishing not MD or VA or DC */
   if ( (st not in (11,24,51)) and (potriver ne .) ) then potriver = . ;
run;

proc freq data=current.comb_1B;
  tables cnty mode_f mode_fx trip_flg*st;
  tables st*cnty / list;
  tables st*potriver / list;
  title 'COMB_1B After Recoded Open-Ends';
run;
ENDSAS;
```

FILENAME: FIND774B.SAS

```
/*  PROGRAM NAME:  FIND774B.SAS
   NOAA
   This is a replacement for the wave 3 1996 program FIND77_4.SAS.
   This reads a complete trip record superset file, finds all
   respondents who said 'all trips are the same'(CONT77 = 4),
   pulls their trip records into one file and the others into
   another file.
   Then, makes a file of records to be duplicated.  The records to be
```

```
   duplicated are from the day prior to the day the respondent gave
   the 'all trips same' response.  Since this would be the last day
   recorded for the respondent, and we so far have a record for every
   day, the day to duplicate is the next-to-last day.
   Will start by making a workfile and deleting everyone's last day.
   The workfile (DUPSET.SD2) is input to DUPTRIP.SAS, which actually
   does the duplicating.
   S. Wilder     9/23/96
*/

libname current '';
options ps=58;

/*  find the "all trips the same" respondents  */

Data current.cont774 (keep = codenum fshrnum cont77);
  set current.comb_1B;
  if cont77 = 4;
run;
proc sort nodupkey data=current.cont774;  by codenum fshrnum;  run;
proc sort data=current.comb_1B;  by codenum fshrnum;  run;

/*  put the all trips same fishers into DUPSET1 and the others into COMB_2  */

data dupset1 current.comb_2;
  merge current.comb_1B current.cont774 (in=dupit);
  by codenum fshrnum;
  if dupit then output dupset1;
  else output current.comb_2;
run;

/*  delete the last day of each fisher from dupset, where the fisher must
    have said that all remaining trips are the same.  */
/*  first find the last day for each individual angler */

data dropset (keep = codenum fshrnum tripnuma);
 set dupset1;
run;
proc sort data=dropset;  by codenum fshrnum descending tripnuma;  run;
proc sort data=dropset nodupkey;  by codenum fshrnum;  run;
proc sort data=dropset;  by codenum fshrnum tripnuma;  run;
proc sort data=dupset1;  by codenum fshrnum tripnuma tripnumb;  run;

/*  now make the dupset by writing all records for these anglers  EXCEPT the last day */

data current.dupset;
 merge dupset1 dropset (in=drop);
 by codenum fshrnum tripnuma;
 if not drop;
run;

proc contents data=current.dupset;

-------------------------------------------------------------------------------------------
```

FILENAME: DUPTRIP.SAS

```
/*   PROGRAM NAME:  DUPTRIP.SAS
   NOAA
   Takes output from FIND774B.SAS,
   counts number of 'trip-days' (can be 1-3 trip cards/day),
   splits it into 'last trip-day'and 'not last trip-day' files.
   Then, duplicates the requsite number of 'trip-days'.
   S. Wilder    8/7/96
   Mod 8/28/96 on instructions from Gerry Grey of NOAA to
   limit max number of 'trip-days' (NUMTRIPS) to 62.
   Mod 8/30/96 on instructions from Gerry Grey to NOT copy
   any 'trip-days' where there was more than one trip mode
   since we can't really tell which trip they're referring to
   when they say 'all the same'.  Actually goes ahead and makes
   the cards, then deletes them from the final MORE_4 data set.
*/

libname current '';
options ps=58;

/*  Find out how many good trip-days we have  */

proc sort data=current.dupset;  by codenum fshrnum tripnuma;
proc freq data=current.dupset;  tables tripnuma;  run;
proc summary data=current.dupset;
  by codenum fshrnum;
  var tripnuma;
  id numtrips;
  output out=tripcnt(drop = _type_ _freq_) n=gottrips;
run;

/*  Do a little checking  */
proc contents data=tripcnt;  run;
proc freq data=tripcnt;  table gottrips;  run;
proc sort data=tripcnt nodupkey;  by codenum fshrnum;  run;

/*  Get the trip-day that is to be duplicated  */
data dupme (keep = codenum fshrnum tripnuma);
  set current.dupset;
  by codenum fshrnum tripnuma;
  if last.fshrnum then output dupme;
run;

proc print data=dupme;  run;
proc sort data=dupme nodupkey;  by codenum fshrnum tripnuma;  run;
proc sort data=current.dupset;  by codenum fshrnum tripnuma;  run;

/*  Get the number of trips they said they took onto the 'trip-day'card */

data dupthese;
  merge current.dupset dupme (in=dupit);
  by codenum fshrnum tripnuma;
  if dupit then output dupthese;
```

```
run;
proc sort data=dupthese;  by codenum fshrnum;  run;
proc sort data=tripcnt;  by codenum fshrnum;  run;

/*  Get the number of trips we've already got onto the 'trip-day' card */

data duprecs;
   merge dupthese (in=dup) tripcnt (in=cnt);
   by codenum fshrnum;
   if cnt and dup;
run;

proc datasets;  delete dupthese;  run;

/*  Now duplicate the 'trip-day' up to the number of trips or 62,
    whichever is less */

data morecard (drop = gottrips j thismany holdnum);
  set duprecs;
  if numtrips gt 62 then numtrips = 62;
  thismany = numtrips - gottrips;
  holdnum = tripnuma + 20 ;
  do j = 1 to thismany;
    tripnuma = holdnum + j;
    date_trp = ' ';
    output;
  end;
run;

/*   so now we've got 'em all;   delete the 2 or more trips on the same day cards  */

data chk (keep = codenum fshrnum tripnuma tripnumb);
  set morecard;
  if tripnumb ne 0.4;
run;
proc sort data=chk;  by codenum fshrnum tripnuma tripnumb;  run;

data toomany (keep = codenum fshrnum);
  set chk;
  by codenum fshrnum tripnuma;
  if not (first.tripnuma and last.tripnuma);
run;

proc sort data=toomany nodupkey;  by codenum fshrnum;  run;
proc print data=toomany;  title 'TOO MANY TRIPS ON LAST DAY';  run;
proc sort data=morecard;  by codenum fshrnum tripnuma tripnumb;  run;
proc contents data=morecard;  run;

data current.more_4;
  merge morecard (in=made) toomany (in=oops);
  by codenum fshrnum;
  if not oops;
run;
```

```
/*so now we have just the duplicated trips, when there was only one trip on the day duplicated*/
proc contents data=current.more_4;
run;

----------------------------------------------------------------------------------------------
```

FILENAME: MERGBACK.SAS

```
/*  PROGRAM NAME:  MERGBACK.SAS
    Merges CONT77 response 4 records (original and created)
    with remaining original records.
    NOAA    S. Wilder      8/7/96
    Mod 8/28/96 to delete any records with date_trp = '777796'
    and any records with both st and cnty blank on instructions
    from Gerry Grey of NOAA.
    Mod 9/11/96 to also delete records where st is 77 (Stop recording),
    98 (DK) or 99 (REF) and cnty is blank since that is functionally
    equivalent to st and cnty both blank.
    Mod 2/6/97 to change '777796' to '777797'
    Mod 1/27/98 to change '777797' to '777798'
    Mod 2/18/99 to change '777798' to '777799'
    Mod 2/3/00 to change '777799' to '777700'
    Mod 2/4/98 to keep deleted trips in permanent dataset 'GARBTRIP'.
    Mod 3/29/98 to use data from COMB_1B as input;  "all trips were the same"
    processing is no longer being used.
*/

libname current '';

data current.comb_3
     current.garbtrip;
     set current.comb_1b;
/*   set current.comb_2 current.dupset current.more_4;  used when duping trips */

   if date_trp eq '777700' then output current.garbtrip;
   else if ( (st eq .) and (cnty eq .) ) then output current.garbtrip;
   else if ( (st in (77,98,99)) and (cnty eq .) ) then output current.garbtrip;
   else output current.comb_3;
run;

proc sort nodupkey data=current.comb_3;  by codenum fshrnum tripnuma tripnumb;  run;
proc sort nodupkey data=current.garbtrip;  by codenum fshrnum tripnuma tripnumb;  run;
proc freq data=current.garbtrip;  tables tripnumb;  run;
```

FILENAME: ALLSAME1.SAS

```
/*  PROGRAM NAME:  ALLSAME1.SAS
    NOAA
    Reads household .SD2 file, keeps masterid and number of
    salt-water 2-month fishers where they said that they all
    took the same trips.    S. Wilder    11/11/96
    Mod 2/10/98 so that if a household says all fishers took the
    same trips, but we have more than one fisher from that household
    in the raw type-3 cards, then that household's fishers are NOT
    duplicated.   For seen-only-once CfMC problem.  */

libname current '';
libname house 'j:\MMR\DATA\NOAA\wave600\PPROCESS\TYPE_1';
```

```
options error=1 ps=58 ls=80;

data asame (keep = masterid numfishr allsame codenum);
  format codenum 8.;
  set house.vtw6ho_2;
  if q18 eq 1;
  allsame = q18;
  codenum = masterid;
  if q9 eq 1 then sole = 1;
  numfishr = sum(q10a_1,q10a,sole);
  if numfishr gt 1 then output; /*  can't replicate if nobody else */
run;
proc sort nodupkey data=asame;  by codenum;  run;
proc freq data=asame;  tables numfishr codenum masterid;  run;

data fishers (keep = codenum fshrnum);
  set current.comb_3;
run;
proc sort data=fishers nodupkey;  by codenum fshrnum;  run;

/*  added 2/10/98 */

data current.toomany;
 set fishers;
 by codenum fshrnum;
 if not (first.codenum and last.codenum);
run;
proc sort data=asame;
 by codenum;
run;

data current.allsame (drop = fshrnum);
  merge asame (in=same) current.toomany (in=too);
  by codenum;
  if same;
  if too then do;
     put 'TOO MANY! ' codenum;
     delete;
  end;
run;

/* end of 2/10/98 addition */
proc sort nodupkey data=current.allsame;  by codenum;  run;
proc freq data=current.allsame;  tables numfishr codenum masterid;  run;
options obs=35;
proc print data=current.allsame;  run;
```

FILENAME: ALLSAME2.SAS

```
/*  PROGRAM NAME:  ALLSAME2.SAS
   Makes trip cards for new "fishers" where everyone in
   the household has taken the same trips.
   S. Wilder  8/7/96  */
```

```
libname current '';
/*  Get the latest trip cards  */

data tempdata;
  set current.comb_3;
run;
proc sort data=tempdata;  by codenum fshrnum;  run;

/*  Check the households where all took same trips to see what to expect */

data chkx (keep = codenum copies);
  set current.allsame;
  copies = numfishr - 1;
run;
proc means data=chkx n sum min max ;
  var copies;
run;
proc freq data=chkx;
  tables copies;
run;

/*  Merge the households where all took same trips onto the trips to duplicate */

data dupme;
  merge tempdata (in=data) current.allsame (in=same);
  by codenum;
  if data and same;
run;

/*  If no trips to duplicate, get rid of the data */

data dupmex;
  set dupme;
  copies = numfishr - 1;
  if copies eq 0 then delete;
run;

/*  Check again on what to expect  */

proc means data=dupmex sum;
   var copies;
run;

proc datasets;  delete tempdata;  run;

/*  Now, duplicate the trip records for each additional family member.
    Use the counter to assign a new fisher number (start with fisher+1,
    since only one fisher per household interviewed).  */

proc sort data=dupme;  by codenum fshrnum tripnuma tripnumb;  run;

data current.famdups (drop = ctr numfishr HOLDNUM);
  set dupme;
  holdnum = fshrnum;
```

```
  do ctr = 1 to numfishr - 1;
     fshrnum = ctr + holdnum;
     output current.famdups;
  end;
run;

proc sort data=current.famdups nodupkey;  by codenum fshrnum tripnuma tripnumb;  run;
proc contents data=current.famdups;
run;
```

FILENAME: LASTMERG.SAS

```
/*  PROGRAM NAME:  LASTMERG.SAS
    Final trip card merge;  adds family dups trip cards
    to previous trip cards and renumbers all trips, since
    we should have them all now.
    S. Wilder      8/8/96    Renumbering deleted in wave four   10/3/96  */

libname current '';

/*  Combine the previous trip cards with the newly duplicated cards  */

data allstuff;
   set current.comb_3 current.famdups;
run;
proc sort data = allstuff nodupkey;
   by codenum fshrnum tripnuma tripnumb;
run;

/*  Renumber the trips - deleted in wave four */
data current.comb_4;
  set allstuff;
run;
proc contents data=current.comb_4;  run;
options ps=58 obs=80;
proc print data=current.comb_4;  run;
```

FILENAME: MANYLEFT.SAS

```
/*  Finds fishers with more cards left than numtrips, gets info
    for other card type updating.
    NOAA     S. Wilder   10/2/96  */

libname current '';
data stuff1 (keep = codenum fshrnum oritrips);
  set current.comb_4;
  oritrips=numtrips;
run;
proc sort data=stuff1;  by codenum fshrnum;  run;
proc summary data=stuff1 noprint;
   by codenum fshrnum;
```

```
  id oritrips;
  output out=stuff2 (keep = codenum fshrnum oritrips _freq_);
run;
proc datasets;  delete stuff1;  run;

data stuff3 (drop = _freq_);
 set stuff2;
 if oritrips lt _freq_;
run;
proc sort data=stuff3;  by codenum fshrnum;  run;

data chk1 (keep = codenum fshrnum oritrips instat outstat dkstat);
  format instat outstat dkstat 1.;
  merge current.comb_4 stuff3 (in=toomany);
  by codenum fshrnum;
  if toomany;
  if (trip_flg eq 1) then instat = 1;
  else if (trip_flg eq 2) then outstat = 1;
  else if (trip_flg in (.,9)) then dkstat = 1;
run;
proc datasets;  delete stuff2 stuff3;  run;
proc sort data=chk1;  by codenum fshrnum;  run;
proc means data=chk1 noprint;
  by codenum fshrnum;
  var instat outstat dkstat;
  id oritrips;
  output out=chk2 sum = instate outstate dkstate;
run;
data current.toomany;
 set chk2;
 actcount = sum(instate,outstate,dkstate);
run;
ENDSAS;
```

FILENAME: TOSSOUT.SAS

```
/*  PROGRAM NAME:  TOSSOUT.SAS
    Removes any upstream of cutoff (CUTOFF = 1) or Texas /other (ST = 97)
    records, then renumbers all trips.  This file of good trips includes
    any anglers duplicated because of 'all took same trip'.
    Deletes certain rivers in certain states.
    Deletes "FOREIGN" trips.
    All removed records go to a permanent data set, DUMPTRIP.SD2.
        DUMPCODE = 1:  Texas/other
                 = 2:  Upstream
                 = 3:  Wrong river
                 = 4:  Foreign trip
                 = 5:  Charter boat crew member  (added 10/2/96 - wave four 1997)
   Makes a file of all fishers remaining in the trip file.  Just codenum and fshrnum.
   Good trips file:  COMB_5.SD2
   Dropped trips:    DUMPTRIP.SD2
   Fishers left:     FSHRLEFT.SD2
   S. Wilder   8/30/96
```

```
  Mod 03/08/2000 to no longer drop "foreign" trips - they are now considered valid trips.  */

options ls=80;
libname current '';

/*  Split up trip card data into file to save and file to remove.
    Put some info into the removed file.  */
data stuff (drop = reason reason2) current.dumptrip current.dumpcstl;
  set current.comb_4;
  format reason2 $20.;
  reason = 0;

/*
  if st_res eq 48 and st eq 48 then reason = -1;
  if st_res in (2,15) and st eq 97 then reason = -1;
  if st_res in (2,15) and st eq 48 then st = 97;
*/

  if (st eq 97) then do;
    reason = 1;
    reason2 = 'TEXAS/OTHER';
  end;
  if (cutoff eq 1) then do;
    reason = 2;
    REASON2 = 'UPSTREAM';
  end;
  if ( (st eq 6) and (river eq 14) ) then do;  /*  river was 15 in wave 3 */
    reason = 3;
    REASON2 = 'WRONG RIVER';
  end;
  if ( (st eq 41)
    and (river in (2,8,10,11,12,13,15,19,26,27,29,30,32,34,35,37)) )
    then do;
    reason = 3;
    REASON2 = 'WRONG RIVER';
  end;
  if ( (st eq 53) and (river eq 16) ) then do;
    reason = 3;
    REASON2 = 'WRONG RIVER';
  end;
/*  This section deleted 3/8/2000
  if (foreign eq 1) then do;
    reason = 4;
    REASON2 = 'FOREIGN';
  end;
*/
  if (crewman eq 1) then do;
    reason = 5;
    REASON2 = 'CREW MEMBER';
  end;
  if reason eq 0 then output stuff;
  else if reason gt 0 then output current.dumptrip;
  else if reason  eq -1 then output current.dumpcstl;
run;
```

```
proc sort nodupkey data=stuff;  by codenum fshrnum tripnuma tripnumb;  run;

/*  Make final trip card data set and renumber the trips  */

data current.comb_5;
 set stuff;
 by codenum fshrnum;
 if first.fshrnum then tr_num = 0;
 retain tr_num;
 tr_num = tr_num + 1;
 trip_num = tr_num;
 output;
run;

/*  now add some more info to current.dumptrip  */

data flushed (keep = codenum fshrnum tripnuma);
  set current.dumptrip;
run;
proc sort nodupkey data=flushed;  by codenum fshrnum tripnuma;  run;

data kept  (keep = codenum fshrnum tripnuma tripnumb);
  set current.comb_5;
run;
proc sort data=kept;  by codenum fshrnum tripnuma;  run;

data both (keep = codenum fshrnum tripnuma);
   merge kept (in=ok) flushed (in=bad);
   by codenum fshrnum tripnuma;
   if ok and bad;
run;
proc sort data=both nodupkey;  by codenum fshrnum tripnuma;  run;
proc print data=both;
  title "RECORDS WITH KEPT AND FLUSHED TRIPS IN THE SAME 'DAY-TRIP'";
run;
proc sort data=current.dumptrip;  by codenum fshrnum tripnuma;  run;

data current.dumptrip;
   merge current.dumptrip (in=dump) both (in=both);
   by codenum fshrnum tripnuma;
   if dump then sameday = 'NO ';
   if both then sameday = 'YES';
run;
proc datasets;  delete both;   run;
proc sort data=flushed nodupkey;  by codenum fshrnum;  run;
proc summary data=kept noprint;
   by codenum fshrnum;
   output out = kept2 (keep = codenum fshrnum _FREQ_);
run;
proc sort data=kept2;  by codenum fshrnum;  run;

data current.dumptrip (drop = _Freq_);
  merge current.dumptrip (in=dump) kept2 (in=kept);
  by codenum fshrnum;
```

```
  anyleft = 'NO ';
  if kept then anyleft = 'YES';
  if dump;
  cardleft = _Freq_;
  if cardleft eq . then cardleft = 0;
run;
proc print data=current.dumptrip;
   var codenum fshrnum tripnuma reason reason2 sameday anyleft cardleft;
   title 'SOME DUMPTRIP INFO';
run;
proc freq data=current.dumptrip;
  title 'DUMPTRIP REASONS';
  table reason2 sameday*anyleft;
run;

/*  Now make file of remaining fisher IDs  */
data current.fshrleft (keep = codenum fshrnum);
  set kept;
run;
proc sort nodupkey data=current.fshrleft;  by codenum fshrnum;
run;
```

FILENAME: FIXCREW.SAS

```
/*  NOAA Type 3 Records
    Recodes mode_f for all charter and party boat trips if the fisher
    is a crewman on a charter or party boat and recalculates mode_fx.
    Also recodes as required where fisher said "all fishers in family
    took same trips".
    S. Wilder    4/16/97
    Mod 1/12/98 to blank pccost, pcpaid, pcnum, and pctype variables
    since they are properly asked of party/charter trips only, and
    these will be recoded to private trips.  */

libname current '';
libname trips '..\tripstuf';
libname recons '..\recontct';
options ls=80;

/*  find crewmen - trips 1-6 and 7+ */
data current.tofix;
  set current.crewflag trips.crewflag
       recons.crewflag
       recons.crewflg2     /*  NO recontacts with 7+ trips! */
     ;
run;
proc sort data=current.tofix nodupkey;  by codenum fshrnum;  run;

/*  now find out who was duplicated in "all fishers in household took same
    trips" processing, split fix data set into two parts */
data famsame (keep = codenum);
  set current.allsame;
run;
```

```
proc sort nodupkey data=famsame;  by codenum;  run;

data current.fsame (drop = fshrnum tripnuma tripnumb)
    current.fnotsame (drop = tripnuma tripnumb);
    merge famsame (in=same) current.tofix (in=fix);
    by codenum;
    if fix;
    if same then output current.fsame;
    else output current.fnotsame;
run;
proc sort data=current.fnotsame nodupkey;  by wave year codenum fshrnum;  run;
proc sort data=current.comb_5; by wave year codenum fshrnum;  run;
proc freq data=current.comb_5;
  tables mode_f mode_fx fshrnum;
  title '2000 Wave 6 - Before Crewman Recoding';
run;

title ;

/*  notsame trips - get all records, fix the ones that need it, keep a record */
data tempdata
       (drop = crewcode)
    tempfix1
       (keep = year wave codenum fshrnum trip_num st cnty sub_reg
        st_res cnty_res reg_res coast realcnty realreg realsub);
  merge current.fnotsame (in=fixlist) current.comb_5 (in=data) ;
  by wave year codenum fshrnum;
  if data;
  if ( (fixlist) and (compress(mode_f) in ('6','7')) ) then do;
    mode_f = ' 8';
    mode_fx = ' 7';
    pccost = .;
    pcpaid = .;
    pcnum  = .;
    pctype = .;
    output tempfix1;
  end;
  output tempdata;
run;
proc sort data=current.fsame nodupkey;  by wave year codenum;  run;

/*  same trips - get all records, fix the ones that need it, keep a record */
data current.comb_6
       (drop = crewcode)
    tempfix2
       (keep = year wave codenum fshrnum trip_num st cnty sub_reg
        st_res cnty_res reg_res coast realcnty realreg realsub);
  merge tempdata (in=data) current.fsame (in=fixlist);
  by wave year codenum;
  if data;
  if ( (fixlist) and (compress(mode_f) in ('6','7')) ) then do;
    mode_f = ' 8';
    mode_fx = ' 7';
    pccost = .;
```

```
    pcpaid = .;
    pcnum  = .;
    pctype = .;
    output tempfix2;
  end;
  output current.comb_6;
run;

/*  put temporary fix datasets together */
data current.crewfixd;
 set tempfix1 tempfix2;
run;
proc freq data=current.comb_6;
  tables mode_f mode_fx fshrnum;
  title '2000 Wave 6 - After Crewman Recoding';
run;
ENDSAS;
```

FILENAME: NOAATRP.SAS

```
/*  PROGRAM NAME:  NOAATRP.SAS
    NOAA Project
    Takes the completed trip cards from the appropriate
    SAS data set and extracts out only the variables
    required by NOAA.
    S. Wilder   8/8/96
    Mod 12/10/96 to force numeric lengths to 8 and to remove
    any formats.
    Mod 6/4/97 to reformat "DATE_TRP" from MMDDYY to YYMMDD.
    Not done in the main processing since upstream programs
    key on that date for processing.
    Mod 4/30/98 to handle new regions, subregions, and counties
    and to make a separate data set with additional variables
    required for report generation.
    Mod 2/18/99 to reformat "DATE_TRP" from MMDDYY to YYYYMMDD.
    Not done in the main processing since upstream programs
    key on that date for processing.
*/

libname current '';

proc sort data = current.comb_6;  by masterid fshrnum trip_num;  run;

data current.t3_20006 (keep =
  access area cnty cnty_res codenum date1 date_trp foreign
  for_bass fshrnum kep_bass launch mode_f mode_fx num_bass
  punch reg_res river salmon st st_res sub_reg time trip_flg
  trip_num weekend wave year pccost pcpaid pcnum pctype
  potriver
  );
  /* length statement added 12/10/96 */
  length access cnty cnty_res codenum foreign for_bass fshrnum kep_bass
     launch num_bass punch reg_res river salmon st st_res sub_reg time
```

```
      trip_flg trip_num wave weekend year pccost pcpaid pcnum pctype
      potriver 8;
  set current.comb_6 (drop = date1 rename = (date_trp = datetrp1));
  format workdate date1 $14. w1 w2 w3 $2. date_trp $8.;
  if _n_ eq 1 then do;
    workdate = put(datetime(),datetime14.);
    date1 = substr(workdate,2,13);
  end;
  retain date1;
  if area eq '.' then area = ' ';
/*  next section added 6/4/97, changed 2/18/99
   Note: This is insane. Needs to be redone with
       SAS dates informats and formats. . . WC 01/17/2001 */
   w1 = substr(datetrp1,5,2);
   w2 = substr(datetrp1,1,2);
   w3 = substr(datetrp1,3,2);
   date_trp = '20' || trim(w1) || trim(w2) || trim(w3);

/* added 4/30/98 */
  cnty_res = realcnty * 1;
  reg_res = realsub * 1;
  if ( (realsub eq 4) and (realreg eq 1) ) then reg_res = 10;   /* Alaska to 10 */
  if st_res in (72,78) then reg_res = 11;  /* PR/VI */

/*  following label statement received from NOAA and added 9/23/96  */
LABEL DATE1    = 'DATE DATASET CREATED'
     REG_RES  = 'REGION OF RESIDENCE'
     WAVE     = 'WAVE'
     YEAR     = 'SURVEY YEAR'
     CODENUM  = 'HOUSEHOLD ID'
     ST_RES   = 'STATE OF RESIDENCE'
     CNTY_RES = 'COUNTY OF RESIDENCE'
     FF12     = 'NUM. OF 12MON.FSHMN  INSTATE'
     NUM_INT  = 'NUM. 2MO. FSHMN INSTATE'
     NOTINT_R = 'ANGLERS REFUSING TO GIVE DATA  INSTATE '
     NOTINT_U = 'ANGLERS W/PROXY DATA INCL INSTATE '
     NOTINT_O = 'CHILDREN/OTHER LANG. W/PROXY INSTATE '
     NOTINT_F = 'NEVER INT. NO PROXY DATA INCL INSTATE'
     FSHRNUM  = 'FISHERMAN NUMBER'
     DATE_INT = 'DATE OF INTERVIEW'
     INTVUER  = 'INTERVIEWER ID'
     SOURCE   = 'INFORMATION PROVIDED BY'
     LANG     = 'LANGUAGE OF INTERVIEW'
     TWO_MON  = '2 MONTH INFO. (YES/NO)'
     NUM_TRPS = 'NUMBER OF TRIPS'
     TRIP_NUM = 'TRIP NUMBER'
     DATE_TRP = 'DATE OF TRIP'
     MODE_F   = 'MODE OF FISHING'
     PHONENUM = 'PHONE NUMBER OF HH'
     AREA     = 'AREA OF FISHING'
     ST       = 'STATE OF TRIP'
     CNTY     = 'COUNTY OF TRIP'
     MODE_FX  = 'MODE COLLAPSED'
     SUB_REG  = 'SUBREGION OF TRIP'
```

```
    FF2     = 'NUMBER OF 2 MONTH ANGLERS IN STATE ONLY'
    ACCESS  = 'PUBLIC VS PRIVATE ACCESS'
    LAUNCH  = 'BOAT LAUNCH SITES CHARACTERISTICS'
    TIME    = 'TIME OF DAY'
    WEEKEND  = 'WEEKEND/WEEKDAY QUESTION'
    FOR_BASS = 'FISHED FOR STRIPED BASS'
    NUM_BASS = 'NUMBER STRIPED BASS CAUGHT'
    KEP_BASS = 'NUMBER STRIPED BASS KEPT'
    SALMON  = 'SALMON TRIP EQ 1'
    OUTLIER  = 'OUTLIER VARIFIED OR NOT'
    OUT_FF  = 'NUMBER OF 2 MONTH OUT OF STATE ANGLERS'
    TOT_2MO  = 'TOTAL IN STATE AND OUT OF STATE ANGLERS'
    TRIP_FLG = 'IN OR OUT OF STATE TRIP FOR PC ONLY'
    PUNCH   = 'PUNCH CARD AREAS IN WASHINGTON'
    FOREIGN  = 'FOREIGON WATERS'
    TOT_HH  = 'TOTAL PEOPLE IN HH(FISHING AND NONFISHING)'
    potriver = 'POTOMAC RIVER FISHING'
;
run;
proc datasets library=current;            /* added 12/10/96  */
 modify t3_20006;
 format access area cnty cnty_res codenum date1 date_trp foreign
       for_bass fshrnum kep_bass launch mode_f mode_fx num_bass
       punch reg_res river salmon st st_res sub_reg time trip_flg
       trip_num wave weekend year pccost pcpaid pcnum pctype potriver;
run;
proc contents data=current.t3_20006;  run;

/*  Now make the reporting data set  */
data current.t3_rpts (keep =
  access area cnty cnty_res codenum date1 date_trp foreign
  for_bass fshrnum kep_bass launch mode_f mode_fx num_bass
  punch reg_res river salmon st st_res sub_reg time trip_flg
  trip_num weekend wave year pccost pcpaid pcnum pctype
  realcnty  realreg realsub coast potriver
  );
  /* length statement added 12/10/96 */
  length access cnty cnty_res codenum foreign for_bass fshrnum kep_bass
     launch num_bass punch reg_res river salmon st st_res sub_reg time
     trip_flg trip_num wave weekend year pccost pcpaid pcnum pctype
     potriver 8;
  set current.comb_6 (drop = date1 rename = (date_trp = datetrp1));
  format workdate date1 $14. w1 w2 w3 $2. date_trp $8.;
  if _n_ eq 1 then do;
    workdate = put(datetime(),datetime14.);
    date1 = substr(workdate,2,13);
  end;
  retain date1;
  if area eq '.' then area = ' ';

/*  next section added 6/4/97  */
   w1 = substr(datetrp1,5,2);
   w2 = substr(datetrp1,1,2);
   w3 = substr(datetrp1,3,2);
```

```
   if w2 eq '12' then date_trp = '19' || trim(w1) || trim(w2) || trim(w3);
    else date_trp = '20' || trim(w1) || trim(w2) || trim(w3);

/*  added 1/5/2000 */
  if st_res in (72,78) then do;
    reg_res = 11;  /* PR/VI */
    cnty_res = realcnty;
  end;
run;
```

FILENAME: CHKFREQ.SAS

```
libname current '';
options ps=58 ls=80;
data chk (drop = codenum);
 set current.t3_20006;
run;
proc freq data=chk;
 title 'NOAA 2000 Wave 6 - TYPE 3 (TRIP) CARDS';
run;
```

FILENAME: TO_XPORT.SAS

```
/*  NOAA Project    Makes SAS TRANSPORT data set from t3_yyyyw.SD2 data set
   for transmittal to NOAA.     S. Wilder     8/8/96  */

libname current '';
libname trans xport '..\xported\t3_20006.xpt';
proc copy in=current out=trans;
 select t3_20006 / memtype=data;
run;
```

TYPE 6 - FLEX QUESTIONS

FILENAME: SF_1.SAS

```
/*  Read shellfish data from household and fisher records
   Walter Clinton 05/26/2000  */
options ls=80;
libname fish '..\fishstuf';
libname house '..\type_1';
libname current '';

data step1
    (keep = wave year st_res cnty_res reg_res codenum fshrnum
/* for checking keep these too
          q4 q6 q9 q10 q10a q10a_1 q6_1 q8a source */
          s1 s2con s2lob s2whlk s3con s3lob s3whlk
          s4con s4lob s4whlk);
 set fish.vtw6fi_2
    (in=fish keep = masterid fipscode subreg ftimesx
```

```
          s1 s2con s2lob s2whlk s3con s3lob s3whlk
          s4con s4lob s4whlk)
    house.vtw6ho_2
    (in=house keep = masterid fipscode subreg
/* for checking keep these too   */
          q4 q6 q9 q10 q10a q10a_1 q6_1 q8a
          s1 s2con s2lob s2whlk s3con s3lob s3whlk
          s4con s4lob s4whlk);

length source $8
      st_res cnty_res reg_res codenum 8.;
if fish then source='fish';
else if house then source='house';
else source='problem';
if s1 ne .;
* to check all Caribbean data    if subreg=8;
  wave = 6;
  year = 2000;
 st_res = substr(fipscode,1,2);
 cnty_res = substr(fipscode,3,3);
 reg_res = subreg;
 codenum = masterid;
 fshrnum = ftimesx;
run;
proc sort data=step1; by codenum; run;

data step1 (drop=realcnty);
   merge step1 (in=indat) house.prvicnty (in=pr drop=cnty_res);
   by codenum;
   if indat;
   if pr and realcnty ne . then cnty_res=realcnty;
   if ( (not pr) and (st_res in (72,78)) )
      then realcnty = "998";
if st_res in (72,78) then reg_res = 11;   /* PR/VI to 11 */
run;

/*  For checking the data before creating a permanent dataset
data dups;
  set step1;
  by codenum;
  if first.codenum and last.codenum then delete;
run;
proc print;
run;
proc freq data=step1;
  tables _all_;
run;
proc freq data=step1;
 tables s1*q4*q6*q6_1*q8a*q9*q10*q10a*q10a_1*source / list missing nocum nopercent;
run;
endsas;
*/

data current.t6_20006   (drop = workdate fshrnum);
```

```
    length  date1 $ 14
          wave year st_res cnty_res reg_res codenum
          s1 s2con s2lob s2whlk s3con s3lob s3whlk
          s4con s4lob s4whlk                          8.
    ;
 set step1;
 format workdate date1 $14.;
 if _n_ eq 1 then do;
  workdate = put(datetime(),datetime14.);
  date1 = substr(workdate,2,13);
 end;
 retain date1;
 rename s1      = went_sf
       s2con   = conch12
       s2lob   = sp_lob12
       s2whlk  = whelk12
       s3con   = trps_con
       s3lob   = trps_lob
       s3whlk  = trps_wlk
       s4con   = conch02
       s4lob   = sp_lob02
       s4whlk  = whelk02 ;
run;
proc datasets library=current;
  modify t6_20006;
    format  wave year st_res cnty_res reg_res codenum
          went_sf conch12 sp_lob12 whelk12
          trps_con trps_lob trps_wlk conch02
          sp_lob02 whelk02 date1 ;
    label went_sf  = 'ANYONE GO SHELLFISHING IN LAST 12 MONTHS'
         conch12  = '# PEOPLE SHELLFISHING IN LAST 12 MONTHS'
         sp_lob12 = '# PEOPLE SHELLFISHING IN LAST 12 MONTHS'
         whelk12  = '# PEOPLE SHELLFISHING IN LAST 12 MONTHS'
         trps_con = '# SHELLFISHING TRIPS IN PAST 2 MONTHS'
         trps_lob = '# SHELLFISHING TRIPS IN PAST 2 MONTHS'
         trps_wlk = '# SHELLFISHING TRIPS IN PAST 2 MONTHS'
         conch02  = 'AVG # SHELLFISHING IN LAST 2 MONTHS'
         sp_lob02 = 'AVG # SHELLFISHING IN LAST 2 MONTHS'
         whelk02  = 'AVG # SHELLFISHING IN LAST 2 MONTHS'
         st_res   = 'State of residence'
         cnty_res = 'County of residence'
         reg_res  = 'Sub-region of residence'
         wave     = 'Wave'
         year     = 'Survey year'
         codenum  = 'Household ID'
         date1    = 'Date dataset created';
run;

title 'NOAA Wave 6 2000 Caribbean Shellfish (Type 6) Questions';
data chk (drop = codenum);
  set current.t6_20006;
run;
proc freq data=chk;
run;
```

```
proc contents data=current.t6_20006;
```

FILENAME: TO_XPORT.SAS

```
/*  NOAA Project    Makes SAS TRANSPORT data set from t6_yyyyw.SD2 data set
    for transmittal to NOAA.     S. Wilder     8/8/96  */

libname current '';
libname trans xport '..\xported\t6_20006.xpt';
proc copy in=current out=trans;
  select t6_20006 / memtype=data;
run;
```

TYPE 8 - PACIFIC ECONOMIC ADD-ON

FILENAME: PC_1.SAS

```
/*  Read Pacific Coast add on economic data from fisher records
    Walter Clinton 08/01/2000  */

options ls=80 ps=59 merror /* mprint mlogic */ symbolgen;

libname fishstuf '..\fishstuf';
libname fisher '..\type_2';
libname current '';

%include 'fishfmts.inc';

%macro deloop(qreg, lettr, othID, targID);
/* Process target one answer */
   if bpac_2&lettr.&targID. ne . and cpac_2&lettr.&targID. ne . then problem=1;
   else if bpac_2&lettr.&targID. ne . then do;
      trg&targID.sr&qreg. = bpac_2&lettr.&targID.;
      trg&targID.srce = 'Bloop';
      trg&targID.qreg = "&qreg.";
   end;
   else if cpac_2&lettr.&targID. ne . then do;
      trg&targID.sr&qreg. = cpac_2&lettr.&targID.;
      trg&targID.srce = 'Cloop';
      trg&targID.qreg = "&qreg.";
   end;
/* Process Other name */
 if bpac_2&othID. ne . and cpac_2&othID. ne . then problem=1;
 else if bpac_2&othID. ne . then othr&targID.sr&qreg. = bpac_2&othID.;
 else othr&targID.sr&qreg. = cpac_2&othID.;
/* Process open end name */
 if compress(bpac2&lettr.&targID.o) ne '' and compress(cpac2&lettr.&targID.o) ne '' then problem=1;
 else if compress(bpac2&lettr.&targID.o) ne '' then op&targID.sr&qreg. = bpac2&lettr.&targID.o;
 else op&targID.sr&qreg. = cpac2&lettr.&targID.o;
%mend deloop;
```

```
data step1 (drop =
          aPAAGE   aPAC_2A1 aPAC_2AA aPAC2A1O aPAC_2B1 aPAC2B1O aPAC_2BB
          aPAC_2C1 aPAC_2CC aPAC2C1O aPAC_2D1 aPAC_2DD aPAC2D1O aPAC_TRG
          aPAC_2A2 aPAC_2EE aPAC2A2O aPAC_2B2 aPAC_2FF aPAC2B2O aPAC_2C2
          aPAC_2GG aPAC2C2O aPAC_2D2 aPAC_2HH aPAC2D2O
          bPAAGE   bPAC_2A1 bPAC_2AA bPAC2A1O bPAC_2B1 bPAC2B1O bPAC_2BB
          bPAC_2C1 bPAC_2CC bPAC2C1O bPAC_2D1 bPAC_2DD bPAC2D1O bPAC_TRG
          bPAC_2A2 bPAC_2EE bPAC2A2O bPAC_2B2 bPAC_2FF bPAC2B2O bPAC_2C2
          bPAC_2GG bPAC2C2O bPAC_2D2 bPAC_2HH bPAC2D2O
          cpaAGE   cpaC_2A1 cpaC_2AA cpaC2A1O cpaC_2B1 cpaC2B1O cpaC_2BB
          cpaC_2C1 cpaC_2CC cpaC2C1O cpaC_2D1 cpaC_2DD cpaC2D1O cpaC_TRG
          cpaC_2A2 cpaC_2EE cpaC2A2O cpaC_2B2 cpaC_2FF cpaC2B2O cpaC_2C2
          cpaC_2GG cpaC2C2O cpaC_2D2 cpaC_2HH cpaC2D2O
          );
 set fishstuf.vtw6fi_2
          (keep = fipscode subreg masterid ftimesx region
          aPAAGE   aPAC_2A1 aPAC_2AA aPAC2A1O aPAC_2B1 aPAC2B1O aPAC_2BB
          aPAC_2C1 aPAC_2CC aPAC2C1O aPAC_2D1 aPAC_2DD aPAC2D1O aPAC_TRG
          aPAC_2A2 aPAC_2EE aPAC2A2O aPAC_2B2 aPAC_2FF aPAC2B2O aPAC_2C2
          aPAC_2GG aPAC2C2O aPAC_2D2 aPAC_2HH aPAC2D2O
          bPAAGE   bPAC_2A1 bPAC_2AA bPAC2A1O bPAC_2B1 bPAC2B1O bPAC_2BB
          bPAC_2C1 bPAC_2CC bPAC2C1O bPAC_2D1 bPAC_2DD bPAC2D1O bPAC_TRG
          bPAC_2A2 bPAC_2EE bPAC2A2O bPAC_2B2 bPAC_2FF bPAC2B2O bPAC_2C2
          bPAC_2GG bPAC2C2O bPAC_2D2 bPAC_2HH bPAC2D2O
          cpaAGE   cpaC_2A1 cpaC_2AA cpaC2A1O cpaC_2B1 cpaC2B1O cpaC_2BB
          cpaC_2C1 cpaC_2CC cpaC2C1O cpaC_2D1 cpaC_2DD cpaC2D1O cpaC_TRG
          cpaC_2A2 cpaC_2EE cpaC2A2O cpaC_2B2 cpaC_2FF cpaC2B2O cpaC_2C2
          cpaC_2GG cpaC2C2O cpaC_2D2 cpaC_2HH cpaC2D2O
          PAC2    PAC3    PAC3_R   PAC5    PAC5_R   PAC6    PAC6_R
          PAC7A    PAC7A_R  PAC7A_BY PAC7B    PAC7B_R  PAC7B_BY PAC7C
          PAC7C_R  PAC7C_BY PAC7D    PAC7D_R  PAC7D_BY PAC7E    PAC7E_R
          PAC7E_BY PAC7F    PAC7F_R  PAC7F_BY PAC8    PAC8_R   PAC8B
          PAC8B_R  PAC9A    PAC9A_R  PAC9B    PAC9B_R  PAC9C    PAC9C_R
          PAC10    PAC10_R  PAC10B   PAC10B_R PAC11    PAC12    PAC12_R
          PAC13    PAC13_R  PAC13B   PAC13B_R PAC14A   PAC14A_R PAC14B
          PAC14B_R PAC14C   PAC14C_R PAC14D   PAC14D_R PAC15    PAC15_R
          PAC15B   PAC15B_R
          );

 length targot_1 targot_2 $30 target1 target2 $10
       st_res cnty_res reg_res codenum 8.;

      wave = 6;  year = 2000;
   st_res = substr(fipscode,1,2);
   cnty_res = substr(fipscode,3,3);
   reg_res = subreg;
   codenum = masterid;
   fshrnum = ftimesx;
   problem = 0;
/* Process Age variables */
   if bpaage gt 0 then age = bpaage;
     else if cpaage gt 0 then age = cpaage;
   if bpaage ne . and cpaage ne . then problem=1;
   if region = 1 and age = 1;
```

```
/* macro deloop arguments are: qreg, lettr, othID, targID */
  %deloop(1,a,aa,1);
  %deloop(2,b,bb,1);
  %deloop(3,c,cc,1);
  %deloop(4,d,dd,1);
  %deloop(1,a,ee,2);
  %deloop(2,b,ff,2);
  %deloop(3,c,gg,2);
  %deloop(4,d,hh,2);

  array targ1 {*} TRG1SR1-TRG1SR4;
  array targ2 {*} TRG2SR1-TRG2SR4;
  array opn1 {*} op1SR1-op1SR4;
  array opn2 {*} op2SR1-op2SR4;
  check1=0;
  check2=0;
  do i = 1 to 4;
    if targ1{i} ne . then do;
      check1 = check1+1;
      intvreg=i;
      trg1answ=targ1{i} + (1000*i);
      target1  = put(trg1answ,specode.);
      targot_1 = put(trg1answ,spename.);
      open1 = opn1{i};
    end;
    if targ2{i} ne . then do;
      check2 = check2+1;
      intvreg=i;
      trg2answ=targ2{i} + (1000*i);
      target2  = put(trg2answ,specode.);
      targot_2 = put(trg2answ,spename.);
      open2 = opn2{i};
    end;
  end;
 if open1 ne ' ' then do;
   flag = trg1answ;
   targ = 'TARGET1';
   response =  upcase(open1);
 end;

 if open2 ne ' ' then do;
   flag = trg2answ;
   targ = 'TARGET2';
   response =  upcase(open2);
 end;

 /* process the easy stuff */
 trip_len = pac2;
  if trip_len in (98,99) then trip_len = trip_len - 90;  /* DK/REF recode 8,9 */

 tripnite = pac3_r;
  if pac3 in (98,99) then tripnite = pac3 + 900;  /* DK/REF recode 998,999 */
  if tripnite in (98,99) then tripnite = tripnite + 900;
```

```
 peop_trv = pac5_r;
  if pac5 in (98,99) then peop_trv = pac5;  /* DK/REF NOT recoded 998,999 */
*  if peop_trv in (98,99) then peop_trv = peop_trv + 900;

 peop_fsh = pac6_r;
  if pac6 in (98,99) then peop_fsh = pac6;  /* DK/REF NOT recoded 998,999 */
*  if peop_fsh in (98,99) then peop_fsh = peop_fsh + 900;

  array temp_i   {*} temp_i01-temp_i06;
  array temp_g   {*} temp_g01-temp_g06;
  array trpanswr {*} PAC7A    PAC7B    PAC7C    PAC7D    PAC7E    PAC7F;
  array trpamunt {*} PAC7A_R  PAC7B_R  PAC7C_R  PAC7D_R  PAC7E_R  PAC7F_R;
  array trp_peop {*} PAC7A_BY PAC7B_BY PAC7C_BY PAC7D_BY PAC7E_BY PAC7F_BY;


  if peop_trv = 1 or peop_fsh = 1 then do;
    do i = 1 to dim(trp_peop);
      trp_peop(i) = 1;
    end;
  end;

  do i = 1 to dim(temp_i);
    if trpanswr(i) in (98,99) then temp_i(i) = trpanswr(i) + 99900;
      else if trp_peop(i) = 1 then temp_i(i) = trpamunt(i);
        else if trp_peop(i) in (.,2) then temp_g(i) = trpamunt(i);
  end;
  drop i;

 trip_i02 = temp_i01 ;
 trip_g02 = temp_g01 ;
 trip_i01 = temp_i02 ;
 trip_g01 = temp_g02 ;
 trip_i09 = temp_i03 ;
 trip_g09 = temp_g03 ;
 trip_i04 = temp_i04 ;
 trip_g04 = temp_g04 ;
 trip_i08 = temp_i05 ;
 trip_g08 = temp_g05 ;
 trip_i10 = temp_i06 ;
 trip_g10 = temp_g06 ;

 tpct_cty = pac8_r;
  if pac8 in (98,99) then tpct_cty = pac8 + 900;  /* DK/REF recode 998,999 */
*  if tpct_cty in (98,99) then tpct_cty = tpct_cty + 900;

 tpct_st = pac8b_r;
  if pac8b in (98,99) then tpct_st = pac8b + 900;  /* DK/REF recode 998,999 */
*  if tpct_st in (98,99) then tpct_st = tpct_st + 900;

 equip_01 = pac9a_r;
  if pac9a in (98,99) then equip_01 = pac9a + 99900;  /* DK/REF recode 99998,99999 */
  if equip_01 in (98,99) then equip_01 = equip_01 + 99900;

 equip_02 = pac9b_r;
```

```
 if pac9b in (98,99) then equip_02 = pac9b + 99900;  /* DK/REF recode 99998,99999 */
 if equip_02 in (98,99) then equip_02 = equip_02 + 99900;

equip_03 = pac9c_r;
 if pac9c in (98,99) then equip_03 = pac9c + 99900;  /* DK/REF recode 99998,99999 */
 if equip_03 in (98,99) then equip_03 = equip_03 + 99900;

epct_cty = pac10_r;
 if pac10 in (98,99) then epct_cty = pac10 + 900;  /* DK/REF recode 998,999 */
*  if epct_cty in (98,99) then epct_cty = epct_cty + 900;

epct_st = pac10b_r;
 if pac10b in (98,99) then epct_st = pac10b + 900;  /* DK/REF recode 998,999 */
*  if epct_st in (98,99) then epct_st = epct_st + 900;

boat_own = pac11;
 if boat_own in (98,99) then boat_own = boat_own - 90;  /* DK/REF recode 8,9 */

boat_exp = pac12_r;
 if pac12 in (98,99) then boat_exp = pac12 + 99900;  /* DK/REF recode 99998,99999 */
 if boat_exp in (98,99) then boat_exp = boat_exp + 99900;

bpct_cty = pac13_r;
 if pac13 in (98,99) then bpct_cty = pac13 + 900;  /* DK/REF recode 998,999 */
*  if bpct_cty in (98,99) then bpct_cty = bpct_cty + 900;

bpct_st = pac13b_r;
 if pac13b in (98,99) then bpct_st = pac13b + 900;  /* DK/REF recode 998,999 */
*  if bpct_st in (98,99) then bpct_st = bpct_st + 900;

othit_03 = pac14a_r;
 if pac14a in (98,99) then othit_03 = pac14a + 99900;  /* DK/REF recode 99998,99999 */
 if othit_03 in (98,99) then othit_03 = othit_03 + 99900;

othit_05 = pac14b_r;
 if pac14b in (98,99) then othit_05 = pac14b + 99900;  /* DK/REF recode 99998,99999 */
 if othit_05 in (98,99) then othit_05 = othit_05 + 99900;

othit_06 = pac14c_r;
 if pac14c in (98,99) then othit_06 = pac14c + 99900;  /* DK/REF recode 99998,99999 */
 if othit_06 in (98,99) then othit_06 = othit_06 + 99900;

othit_07 = pac14d_r;
 if pac14d in (98,99) then othit_07 = pac14d + 99900;  /* DK/REF recode 99998,99999 */
 if othit_07 in (98,99) then othit_07 = othit_07 + 99900;

opct_cty = pac15_r;
 if pac15 in (98,99) then opct_cty = pac15 + 900;  /* DK/REF recode 998,999 */
*  if opct_cty in (98,99) then opct_cty = opct_cty + 900;

opct_st = pac15b_r;
 if pac15b in (98,99) then opct_st = pac15b + 900;  /* DK/REF recode 998,999 */
*  if opct_st in (98,99) then opct_st = opct_st + 900;
```

```
 output step1;
run;

proc sort data=step1;
  by codenum fshrnum;
run;

data stepplus current.problems;
merge step1 (in=a)
    fishstuf.t3_20006 (in = b
                keep = codenum fshrnum trip_num cnty st
                    cnty_res st_res)
    fisher.t2_20006 ( keep = codenum fshrnum rsp_77)
                    ;
  by codenum fshrnum;
  if a and trip_num=1 then output stepplus;
  else if a and not b then output current.problems;
run;

libname type2 '..\type_2';

/* Drop ALL problems
  No merge back to try to keep some
  First tried to merge back with zero trips, keep the rest
  but ended up wiht bad data
data problems;
merge problems (in=a)
    type2.zerotrps (in = notrips keep = codenum fshrnum);
  by codenum fshrnum;
  if a and not notrips;
run;
data stepplus;
set stepplus problems;
run;
 End skip of trying to keep some fishers  */
proc sort data=stepplus out=step1;
  by codenum fshrnum;
run;

/*  For checking the data before creating a permanent dataset */
data dups step1;
 set step1;
 by codenum;
 if first.codenum then output step1;
 if not (first.codenum and last.codenum) then output dups;
run;
proc print;
run;

data seeit  (drop = codenum masterid)
    opens (keep = codenum fshrnum flag targ response)
    current.step1;
 set step1;
 if st in (.,6,41,53);
```

```
 if response ne ' ' then output opens;
 rename st = st_trip
      cnty = cty_trip;
 output seeit
      current.step1;
run;

proc freq data=seeit;
 tables

target1*targot_1 target2*targot_2
targot_1*target1 targot_2*target2
TRIP_LEN*PAC2*rsp_77
TRIPNITE*PAC3*PAC3_R
PEOP_TRV*PAC5*PAC5_R
PEOP_FSH*PAC6*PAC6_R
trip_i02*trip_g02*PAC7A*PAC7A_R*PAC7A_BY
trip_i01*trip_g01*PAC7B*PAC7B_R*PAC7B_BY
trip_i09*trip_g09*PAC7C*PAC7C_R*PAC7C_BY
trip_i04*trip_g04*PAC7D*PAC7D_R*PAC7D_BY
trip_i08*trip_g08*PAC7E*PAC7E_R*PAC7E_BY
trip_i10*trip_g10*PAC7F*PAC7F_R*PAC7F_BY
trip_i02*trip_g02*temp_I01*temp_G01
trip_i01*trip_g01*temp_I02*temp_G02
trip_i09*trip_g09*temp_I03*temp_G03
trip_i04*trip_g04*temp_I04*temp_G04
trip_i08*trip_g08*temp_I05*temp_G05
trip_i10*trip_g10*temp_I06*temp_G06
TPCT_CTY*PAC8*PAC8_R
TPCT_ST*PAC8B*PAC8B_R
EQUIP_01*PAC9A*PAC9A_R*rsp_77
EQUIP_02*PAC9B*PAC9B_R*rsp_77
EQUIP_03*PAC9C*PAC9C_R
EPCT_CTY*PAC10*PAC10_R
epct_st*PAC10B*PAC10B_R
BOAT_OWN*PAC11*rsp_77
BOAT_EXP*PAC12*PAC12_R
BPCT_CTY*PAC13*PAC13_R
BPCT_ST*PAC13B*PAC13B_R
OTHIT_03*PAC14A*PAC14A_R*rsp_77
OTHIT_05*PAC14B*PAC14B_R*rsp_77
OTHIT_06*PAC14C*PAC14C_R*rsp_77
OTHIT_07*PAC14D*PAC14D_R
OPCT_CTY*PAC15*PAC15_R
OPCT_ST*PAC15B*PAC15B_R
                / list missing nopercent;
*  tables _all_ / list nopercent;
 format intvreg intvrg.;
run;
proc sort data=opens; by flag response;  run;

data _null_;
 set opens;
 file 'openend.dat' lrecl=62;
```

```
  put @1   codenum     z8.
     @10  fshrnum      2.
     @14  targ        $8.
     @24  flag         4.
     @30  response    $20.
     @52  '1000000000'
     ;
run;
endsas;
```

FILENAME: PC_2.SAS

```
/*  Second step in Pacific Coast economic (type 0) deliverables.
    Reads in recoded open-ends.
    Checks all species code against fish format.
    Walter Clinton 08/01/2000  */

options ls=80 ps=59 merror /* mprint mlogic */ symbolgen;
libname fish '..\fishstuf';
libname current '.';
%include 'fishfmts.inc';
/*  update data with open-end recodes */
data opentarg;
  infile 'openend.cod' lrecl=80 missover pad;
  input @1   codenum      8.
       @10  fshrnum       2.
       @14  targ         $8.
       @30  response     $20.
       @52  recode       $10. ;
run;
proc sort data=current.step1 out=step1;     by codenum fshrnum targ;  run;
proc sort nodupkey data=opentarg;  by codenum fshrnum targ;  run;

data step2;
  merge step1 (in=indata) opentarg;
  by codenum fshrnum targ;
*  if indata;
   if targ eq 'TARGET1' then do;
     target1 = recode;
     targot_1 = upcase(response);
   end;
   if targ eq 'TARGET2' then do;
     target2 = recode;
     targot_2 = upcase(response);
   end;
  if target1 eq '0000000000' then targot_1 = 'ANYTHING/NOTHING';
  if target1 eq '9999999998' then targot_1 = 'DON"T KNOW';
  if target1 eq '9999999999' then targot_1 = 'REFUSED';
  if target2 eq '0000000000' then targot_2 = 'ANYTHING/NOTHING';
  if target2 eq '9999999998' then targot_2 = 'DON"T KNOW';
  if target2 eq '9999999999' then targot_2 = 'REFUSED';
run;

/*  Check for invalid target species codes by creating
```

```
   an informat of the species codes*/
proc format cntlout=fishlist;
select specode;
run;
data fishlist;
  length start $10;
  set fishlist (keep = fmtname label type);
  if _n_=1 then do;
    start = 'other';
    label = ' ';
    fmtname='chkfish';
    type='c';
    output;
  end;
  start=label;
  fmtname='chkfish';
  type='c';
  output;
run;
proc sort nodupkey data=fishlist;
by start label;
run;
proc format cntlin=fishlist fmtlib;
run;

data current.step2;
  set step2;
  if target1 ne put(target1,$chkfish.) then
    put 'ERROR - invalid species 1 code ' codenum fshrnum target1;
  if target2 ne put(target2,$chkfish.) then
    put 'ERROR - invalid species 2 code ' codenum fshrnum target2;
run;
```

FILENAME: PC_3.SAS

```
/*  Third step in Pacific Coast economic (type 7b) deliverables.
   Makes deliverable (t8_xxxxx) data set, generates freq report,
   makes discarded data set for reporting purposes.
   S. Wilder  7/15/99
*/

options ls=80 ps=59;

libname current '';

data current.discards (drop = workdate)
    current.t8_20006   (keep =
       CNTY_RES CODENUM  DATE1    REG_RES  ST_RES   WAVE     YEAR     FSHRNUM
       ST_TRIP  CTY_TRIP AGE      TARGOT_1 TARGOT_2 TARGET1  TARGET2  TRIP_LEN
       TRIPNITE PEOP_TRV PEOP_FSH TRIP_I01 TRIP_G01 TRIP_I02 TRIP_G02 TRIP_I04
       TRIP_G04 TRIP_I08 TRIP_G08 TRIP_I09 TRIP_G09 TRIP_I10 TRIP_G10 TPCT_CTY
       TPCT_ST  EQUIP_01 EQUIP_02 EQUIP_03 EPCT_CTY EPCT_ST  BOAT_OWN BOAT_EXP
       BPCT_CTY BPCT_ST  OTHIT_03 OTHIT_05 OTHIT_06 OTHIT_07 OPCT_CTY OPCT_ST
```

```
      );
   length  date1 $ 14
        wave year st_res cnty_res reg_res codenum fshrnum age 8
        target1 $ 10 targot_1 $ 30 target2 $ 10 targot_2 $ 30
        TRIP_LEN TRIPNITE PEOP_TRV PEOP_FSH TRIP_I01 TRIP_G01
        TRIP_I02 TRIP_G02 TRIP_I04 TRIP_G04 TRIP_I08 TRIP_G08
        TRIP_I09 TRIP_G09 TRIP_I10 TRIP_G10 TPCT_CTY TPCT_ST
        EQUIP_01 EQUIP_02 EQUIP_03 EPCT_CTY epct_st BOAT_OWN
        BOAT_EXP BPCT_CTY BPCT_ST OTHIT_03 OTHIT_05 OTHIT_06
        OTHIT_07 OPCT_CTY OPCT_ST
        8.
        ;
 set current.step2;
 format workdate date1 $14. dropflag $30.;
 if _n_ eq 1 then do;
  workdate = put(datetime(),datetime14.);
  date1 = substr(workdate,2,13);
 end;
 retain date1;
 targot_1=upcase(targot_1);
 targot_2=upcase(targot_2);
 dropflag = ' ';
 if age eq . then dropflag = 'REFUSED';
 if age eq 2 then dropflag = 'UNDER 16';
* if st_trip in (.,55,77,98,99) then dropflag = 'STATE OF FISHING UNDETERMINED';
* if st_trip in (2,15,48) then dropflag = 'STATE OF FISHING AK/HI/TX';
 /*
 if fishstat eq . then dropflag = 'PREMATURE TERMINATION';
 */
 if dropflag eq ' ' and codenum gt 0 then output current.t8_20006;
  else output current.discards;

run;

proc datasets library=current;
 modify t8_20006;
   format  wave year st_res cnty_res reg_res codenum fshrnum age
        target1 targot_1 target2 targot_2
        trip_len tripnite tripdays tripfish peop_pay trip_i01 trip_g01
        trip_i02 trip_g02 trip_i04 trip_g04
        trip_i06 trip_g06 trip_i07 trip_g07
        trip_ori trip_pro
        equip_01 equip_02 st_trip equip_or equip_pr
        othit_03 othit_05 othit_06 othit_09 othit_or othit_pr
        durab_01 durab_02 durab_03 durab_04 durab_or durab_pr
        date1 ;

    label
      AGE     = 'ARE YOU AT LEAST 16 YEARS OF AGE'
      BOAT_EXP = 'BOAT: MOORING, STORAGE, MAINTENANCE, ETC'
      BOAT_OWN = 'BOAT: PERSONALLY OWN BOAT FOR SW FISHING'
      BPCT_CTY = 'BOAT: PROP. EXP. CTY OF TRIP'
      BPCT_ST  = 'BOAT: PROP. EXP. OUT OF CTY BUT IN ST'
      CNTY_RES = 'COUNTY OF RESIDENCE'
```

```
      CODENUM  = 'HOUSEHOLD ID'
      CTY_TRIP = 'COUNTY OF TRIP'
      DATE1    = 'DATE DATASET CREATED'
      EPCT_CTY = 'EQUIP: PROP. EXP. CTY OF RESIDENCE'
      EPCT_ST  = 'EQUIP: PROP. EXP. OUT OF CTY BUT IN ST'
      EQUIP_01 = 'EQUIP: PURCH. - RODS, REELS ETC'
      EQUIP_02 = 'EQUIP: PURCH. - TACKLE AND GEAR'
      EQUIP_03 = 'EQUIP: PURCH. - ESTIMATED TOTAL'
      FSHRNUM  = 'FISHERMAN NUMBER'
      OPCT_CTY = 'OTHER: PROP. OF EXP. CTY OF RESIDENCE'
      OPCT_ST  = 'OTHER: PROP. OF EXP. OUT OF CTY BUT IN ST'
      OTHIT_03 = 'OTHER: PURCH. - CLOTHING'
      OTHIT_05 = 'OTHER: PURCH. - MAGAZINES'
      OTHIT_06 = 'OTHER: PURCH. - DUES'
      OTHIT_07 = 'OTHER: PURCH. - ESTIMATED TOTAL'
      PEOP_FSH = 'NUMBER OF PEOPLE - ACTUALLY FISHED'
      PEOP_TRV = 'NUMBER OF PEOPLE - WENT ON TRIP TOGETHER'
      REG_RES  = 'REGION OF RESIDENCE'
      ST_RES   = 'STATE OF RESIDENCE'
      ST_TRIP  = 'STATE OF TRIP'
      TARGET1  = 'SPECIES CODE OF FIRST TARGET'
      TARGET2  = 'SPECIES CODE OF SECOND TARGET'
      TARGOT_1 = 'SPECIES NAME TARGET ONE'
      TARGOT_2 = 'SPECIES NAME TARGET TWO'
      TPCT_CTY = 'TRIP: PROP. OF EXP. CTY OF RESIDENCE'
      TPCT_ST  = 'TRIP: PROP. OF EXP. OUT OF CTY BUT IN ST'
      TRIPNITE = 'HOW MANY NIGHTS WERE YOU AWAY ON TRIP'
      TRIP_G01 = 'TRIP:GRP FOOD, DRINK AND REFRESHMENTS'
      TRIP_G02 = 'TRIP:GRP LODGING'
      TRIP_G04 = 'TRIP:GRP BOAT FUEL'
      TRIP_G08 = 'TRIP:GRP PASSENGER FEES, TIPS, FILLETING'
      TRIP_G09 = 'TRIP:GRP BAIT AND ICE'
      TRIP_G10 = 'TRIP:GRP ESTIMATED TOTAL TRIP EXPENSES'
      TRIP_I01 = 'TRIP:IND FOOD, DRINK AND REFRESHMENTS'
      TRIP_I02 = 'TRIP:IND LODGING'
      TRIP_I04 = 'TRIP:IND BOAT FUEL'
      TRIP_I08 = 'TRIP:IND PASSENGER FEES, TIPS, FILLETING'
      TRIP_I09 = 'TRIP:IND BAIT AND ICE'
      TRIP_I10 = 'TRIP:IND ESTIMATED TOTAL TRIP EXPENSES'
      TRIP_LEN = 'WAS THAT DAY OF PART OF A LONGER TRIP'
      WAVE     = 'WAVE'
      YEAR     = 'SURVEY YEAR' ;
run;

title 'NOAA Wave 6 2000 Pacific Coast Economic (Type 8) Questions';
data chk (drop = codenum);
  set current.t8_20006;
run;
proc freq data=chk;
run;
proc contents data=current.t8_20006;
run;
```

Appendix Q

CHBTS Quality Assurance Programs (example)

```
%let wave=6;
%let yr=2000;
%let wkst=44;
%let wkend=52;

libname phsc "c:\mrfss\charter\sc\phone";
libname library "c:\mrfss\programs\formats";

OPTIONS LS=100 ps=80 mprint mlogic symbolgen;

*******************************************************;
*** after Smpweek 09 then reconfigure 0&i. to &i. *****;
*******************************************************;

%let year = %eval(%substr(&yr.,3,2));

%macro check(weekst,weekend);
%do i=&wkst %to &wkend;
  filename count&i. "c:\mrfss\charter\sc\phone\errors\sc&year.ct&i..txt";
  filename out&i. "c:\mrfss\charter\sc\phone\errors\sc&year.p&i..txt";

data check;
  set phsc.sc&year.p&i.;
  proc sort;
   by vsl_id trip_num;
data ph_chk1;
  set check;
  by vsl_id trip_num;
  file out&i.;
 * create record ID;
  length id_code $ 15;
  if trip_num gt 9 then id_code=vsl_id||year||smp_week||put(trip_num,2.);
  if trip_num lt 10 and trip_num gt 0 then id_code=vsl_id||year||smp_week||"0"||put(trip_num,1.);
  if trip_num=. then id_code=vsl_id||year||smp_week||"00";
 * check state code and interviewer ID;
  if st ne '45' then put id_code= " STATE CODE ERROR " st= ;
  if (int_id gt '0' and int_id lt '9000') or (int_id=" and int_date ne ")
     then put id_code= " INT_ID OUT OF RANGE " int_id= ;
  if vsl_id lt '4500001' or vsl_id gt '4500300'
     then put id_code= " VSL_ID OUT OF RANGE " vsl_id= ;

 * check interview date and time;
  if (int_date gt '0') and (int_time = ' ') then
    put id_code= " INTERVIEW DATE AND TIME ERROR " int_date= int_time=;
 * check sampling week;
  if smp_week ne "&i." then put id_code= " SMP_WEEK ERROR " smp_week= ;
 * check sampling year;
  if year ne "&yr." then put id_code= " YEAR ERROR " year= ;
 * check subregion;
  if sub_reg ne '6' then put id_code= " SUBREGION ERROR " sub_reg= st= ;
```

```
 * check number of representatives contacted against status code;
   if num_reps gt 5 then put id_code= " CHECK NUM_REPS " num_reps= ;
   if last.vsl_id and num_reps gt rep_num then
      put id_code= " MISMATCH BETWEEN NUM_REPS AND REP_NUM " num_reps= rep_num= rep_id= ;
   if num_reps=0 and (status='1' or status='2' or status='4'or status='5') then put
      id_code= " MISMATCH BETWEEN NUM_REPS AND STATUS " num_reps= status= ;
   if status gt '9' then put id_code= " STATUS OUT OF RANGE " status= ;
 * check rep_id against interview status;
   if rep_id gt '6' then put id_code= "CHECK REP_ID " rep_id= ;
   if rep_id gt '0' and (int_time lt '0' or int_date lt '0' or status='7') then
      put id_code= "CHECK REP_ID " rep_id= int_date int_time= status= ;

*** The following section checks status vs. bt_trips & rf_trips  ***;
*** and assumes missing values for no contacts & uncoops        ***;
*** and 0 trips for inactives and ineligibles                   ***;

 * check status against numbers of trips reported;
   if ((status='3' or status='4' or status='7') and bt_trips ne .)
     or (status='6' and bt_trips ne 0)
     or (status='8' and bt_trips ne 0)
     or (status='9' and bt_trips ne .)
     or ((status='1' or status='2') and bt_trips=.) then put
     id_code= " MISMATCH BETWEEN STATUS AND BT_TRIPS " status= bt_trips= ;
   if ((status='3' or status='4' or status='7') and rf_trips ne .)
     or (status='6' and rf_trips ne 0)
     or (status='8' and rf_trips ne 0)
     or (status='9' and rf_trips ne .)
     or ((status='1' or status='2') and rf_trips=.) then put
     id_code= " MISMATCH BETWEEN STATUS AND RF_TRIPS " status= rf_trips= ;
 * check status against results;
   if result=' ' then put id_code= " RESULT MISSING " result= ;
   if result='00' or result gt '11' then put id_code= "RESULT OUT OF RANGE " result= ;
   if (status='1' and result ne '10') then put
      id_code= " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='2' and result ne '10') then put
      id_code= " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='3' and result ne '07') then put
      id_code=  " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='4' and result ne '08') then put
      id_code=  " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='5' and result ne '10') then put
      id_code=  " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='6' and result ne '09') then put
      id_code= " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='7' and result gt '06' and result ne '11')
      then put id_code= " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='8' and result ne '10') then put
      id_code= " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
   if (status='9' and result ne '07') then put
      id_code= " MISMATCH BETWEEN STATUS AND RESULTS " status= result= ;
```

```
 * check response to notification question;
 if status not in('3','6','7','8','9') and notified not in('1','2','8','9') then put
    id_code= " CHECK - ERROR IN NOTIFIED " status= notified= ;

*** THE FOLLOWING CHECKS ARE ON COMPLETE INTERVIEWS ONLY ***;

if status='1' or status='2' then do;

 * check for interview date and time;
 if int_date=' ' then put id_code= " INTERVIEW DATE ERROR " int_date=;
 if int_time=' ' then put id_code= " INTERVIEW TIME ERROR " int_time=;
 * check representative number against total number of representatives;
 if rep_num gt num_reps then put
   id_code= " REP_NUM ERROR " num_reps= rep_num= ;
 * check time of interview;
 if int_time gt '0' and (int_time lt '0645' or int_time gt '2200')
    then put id_code= " CHECK INT_TIME - EARLY OR LATE " int_time= ;

 * check number of boat trips against number of marine recreational fishing trips;
 if rf_trips > bt_trips then put
   id_code= " RF_TRIPS EXCEEDS BT_TRIPS " bt_trips= rf_trips= ;
 if (rf_trips + ot_trips) ne bt_trips then put
   id_code= mode_f= " ERROR IN TRIP COUNTS " bt_trips= rf_trips= ot_trips;
 * check for multi-day trips and coding;
 if md_trips gt 0 and multiday ne '1' then put id_code= mode_f=
   " CHECK MULTI-DAY TRIP CODE " md_trips= trip_num= multiday= ;
 if multiday='1' and daysf lt 2 then put id_code= mode_f= md_trips=
   " CHECK MULTI-DAY TRIP CODE " trip_num= multiday= daysf= ;
 * check numbers of boat trips and marine recreational fishing trips;
 if bt_trips gt 31 or rf_trips gt 21 then put
   id_code= " CHECK TRIPS - LARGE " bt_trips= rf_trips= ;
 * check trip number against total trips reported;
 if trip_num > bt_trips then put id_code= " TRIP_NUM OUT OF RANGE "
    bt_trips= rf_trips= trip_num= ;

 * check mode of trip;
 if mode_f gt '0' and mode_f not in (6,7,9) then
    put id_code= " MODE_F OUT OF RANGE " mode_f= ;
 if trip_num > 0 and mode_f=' ' then
    put id_code= " MODE_F MISSING FOR TRIP " trip_num= status= ;

 * check number of PEOPLE (passengers in SC Pilot) against mode;
 * and number of ANGLERS (people who fished in SC Pilot) against mode;
 if (mode_f='6' or mode_f='7') and (people lt 1) then put
    id_code= " CHECK NUMBER OF PEOPLE " mode_f= people= ;
 if (mode_f='6' or mode_f='7') and (anglers lt 1) then put
    id_code= " CHECK NUMBER OF ANGLERS " mode_f= anglers= ;
 if (mode_f='6' or mode_f='7') and (anglers gt people) then put
    id_code= " CHECK NUMBER OF ANGLERS > PEOPLE " mode_f= people= anglers= ;
 if (mode_f='6' or mode_f='7') and ((anglers + nanglers) ne people) then put
   id_code= " CHECK NUMBER OF ANGLERS + NANGLERS = PEOPLE " mode_f=
```

```
    people= anglers= nanglers= ;
  if (people > 6 and mode_f='7') or (people < 7 and mode_f='6')
     then put id_code= " CHECK PEOPLE AGAINST MODE_F " mode_f= people= ;

  * check state of access site for trip;
  if (trip_st gt '0') and trip_st ne st then put
     id_code= " CHECK OUT_OF_STATE TRIP " st= trip_st= tripcnty= ;
  * check type of access site (public vs. private);
  if (access gt '0') and access not in (1,2,8,9) then put
    id_code= " ACCESS UNKNOWN OR OUT_OF_RANGE " access= ;

  * check fishing method;
  if (method1 gt '0') and method1=method2 and method1 ne '8' then put
     id_code= " DUPLICATE METHODS " method1= method2= ;
  if (method1='8' or method1='9') and method2 < '7' then
     put id_code= " MISMATCH BETWEEN METHODS " method1= method2= ;
  * check primary fishing area and distance from shore;
  if area gt '5' then put id_code= " AREA OUT OF RANGE " area= ;
  if trip_num > 0 and mode_f ne '9' and area=' ' then
    put id_code= " AREA MISSING FOR TRIP " trip_num= status= mode_f= ;
  if area gt '0' and (area ne '1' and dist ne '8') then
    put id_code= " MISMATCH BETWEEN AREA AND DIST " area= dist= ;
  if (area gt '0') and (area='1' and dist='8') then
    put id_code= " MISMATCH BETWEEN AREA AND DIST " area= dist= ;
  if area='1' and dist ne '1' and dist ne '2' then
     put id_code= " MISMATCH BETWEEN AREA AND DIST " area= dist= ;
  * check collapsed primary fishing area against uncollapsed primary fishing area;
  if (area gt '0') and (area='1' and area_x='5') then put
     id_code= " MISMATCH BETWEEN AREA AND AREA_X " area= area_x= ;
  if (area gt '0') and (area ne '1' and area_x ne '5') then put
     id_code= " MISMATCH BETWEEN AREA AND AREA_X " area= area_x= ;
  if (area='1' and dist='1' and area_x ne '1')
     or (area='1' and dist='2' and area_x ne '2')
     or (area ne '1' and dist='8' and area_x ne '5') then put
     id_code= " MISMATCH BETWEEN AREA/DIST AND AREA_X " area= dist= area_x= ;

 * check for post-validation errors;
   if verified > '2' then put id_code= " VERIFIED CODE ERROR " verified= ;
   if verified='1' then do;
    if errors ne '1' and errors ne '2' then put id_code= " ERRORS CODE MISSING " verified= ;
   end;
 * Verified, errors are currently left blank if not done in Gulf - TRS  ***;
  if verified='2' and errors ne '8' then put
     id_code= " MISMATCH BETWEEN VERIFIED AND ERRORS " verified= errors= ;

 end;

data targchk;
 set check;
  file out&i. mod;
  length id_code $ 15 comtarg $ 25;
```

```
  if trip_num gt 9 then id_code=vsl_id||year||smp_week||put(trip_num,2.);
  if trip_num lt 10 and trip_num gt 0 then id_code=vsl_id||year||smp_week||"0"||put(trip_num,1.);
  if TARGET ne '0000000000' and TARGET ne ' ' and TARGET ne '9999999999';
    COMTARG = PUT(TARGET,$COM_AG.);
    IF COMTARG = ' ' OR COMTARG = TARGET THEN PUT
    ID_CODE= '' POTENTIALLY INVALID CODE FOR PRIMARY TARGET '' TARGET= ;
run;

data ph1;
  set check;
  *** this data step has vessels who made NO trips during sample week ***;
  *** and deletes those NOT INTERVIEWED                              ***;
  if tripdate > '0' then delete;
  if status ne '1' and status ne '2' and status ne '5' then delete;
  dummy=0;
  proc sort;
   by year smp_week vsl_id;
data pfirst;
  set ph1;
  by year smp_week vsl_id;
  if first.vsl_id;
  dummy=1;
data pdupl;
  merge ph1 pfirst;
  by year smp_week vsl_id;
  file out&i. mod;
  if dummy=0 then put vsl_id= ' More then one record for 0 Trips Reported ';
 run;

data countC countH;
  set check;
  if vsl_typ='C' then output countC;
  if vsl_typ='H' then output countH;
  proc sort nodupkey data=countC;
  by smp_week vsl_id;
  proc sort nodupkey data=countH;
  by smp_week vsl_id;

 * check number of vessels in data set by Vessel Type - Charterboat & Headboat;
 * Counts are for Wave 5, 2000;

data sumC;
  set countC nobs=countC;
  file count&i.;
  if ''&wave''=6 then do;
    if countC ne 22 then put vsl_id= vsl_typ= smp_week=
       '' MISSING CHARTER VESSEL DATA '' countC=;
  end;

data sumH;
  set countH nobs=countH;
```

```
  file count&i. mod;
  if "&wave"=6 then do;
    if countH ne 3 then put vsl_id= vsl_typ= smp_week=
       " MISSING HEADBOAT VESSEL DATA " countH=;
  end;

run;

%end;
%mend;
%check(&wkst,&wkend)
```

Appendix R

RDD Wave Report Table (example)

Telephone Household Survey -- Wave 6, 2000
Overview

General Observations

- The completion rate achieved in Wave 6, 2000, was 99.5%, with a 4.6% refusal rate and 0.5% "no fishermen interviewed" rate. This compares with completion, refusal and "no fisherman interviewed" rates of 99.7%, 5.7% and 0.3%, respectively, in Wave 6, 1999.
- The average number of trips per 2-month fishing household was 2.67 in 2000 and 2.37 in 1999.
- The overall number of trips in 2000 totaled 5,074 representing 1,903 fishing households, compared with 4,601 and 1,938 in 1999.
- The geographic distribution of the households for 2000 and 1999 is depicted in Table I below.
- The total number of households contacted decreased by 4.9% from 1999 (41,616) to 2000 (39,669). The quota was 41,165 and 39,376 in 1999 and 2000, respectively, a decrease of 4.5%.

Table I
2-Month Fishing Household Comparison
by Region and Year

	Total US	Pacific	Northeast	Southeast
1999 - Number of 2-Month Fishing HHs	1,938	142	444	1,270
1999 - % of Total Contacts	4.7	2.0	4.1	6.1
2000 - Number of 2-Month Fishing HHs	1,903	146	466	1,203
2000 - % of Total Contacts	4.8	1.9	3.8	7.1

Response Rates for Fishermen Identified (Refer to Table II below.)

- The completion and refusal rates for identified anglers decreased in 2000, while the "unavailable fisherman" rate for identified anglers increased.
- The completion rate achieved among identified fishermen in 2000 and 1999 was 88.1% and 89.6% respectively.
- The refusal rate of identified fishermen was 3.9% in 2000 and 4.6% in 1999.

- Identified fishermen who were unavailable during the fielding period was 8.0% in 2000 and 5.8% in 1999.

TABLE II RESPONSE RATES -- IDENTIFIED FISHERMEN WAVE 6, 2000		
	WAVE 6 1999	WAVE 6 2000
Base - Identified Anglers	3,057	3,041
Refusals - %	4.6	3.9
Respondent Unavailable - %	5.8	8.0
Fishermen Profiled - %	89.6	88.1

Geographic Variation (Refer to Table III below.)

- The overall completion rate was 88.1%, with the Southeast at 86.9%, the Northeast at 90.0%, and the Pacific at 90.6%.
- The refusal rates were 3.0% in the Northeast, 3.9% in the Southeast, and 4.9% in Pacific.
- The percent of unavailable fishermen was 4.5% in the Pacific, 7.1% in the Northeast, and 9.2% in the Southeast.

TABLE III RESPONSE RATES -- REGIONAL ANALYSIS WAVE 6, 2000				
	TOTAL	(1) PACIFIC	(2) NORTHEAST	(3) SOUTHEAST
Base - Identified Anglers	3,041	223	677	1,969
Refusals - %	3.9	4.9	3.0	3.9
Respondent Unavailable - %	8.0	4.5	7.1	9.2
Fishermen Profiled - %	88.1	90.6	90.0	86.9

Composition of Fishermen Profiled (Refer to Table IV below.)

- The percent of qualified households was 4.8% in Wave 6, 2000 and 4.7% in 1999, where a qualified household is one in which at least one household member has been recreational saltwater sportfishing within the 2-month recall period.
- This represents a total of 1,903 and 1,938 qualified households in 2000 and 1999, respectively, for a decrease of 1.8.%.
- In 2000, profiles were obtained from 99.5% of 2-month fishing households and 88.1% of identified fishermen. In 1999, the corresponding figures were 99.7% and 89.6%.
- In 91.9% of 2-month fishing households, at least one fisherman was personally interviewed in 2000, vs. 92.1% of 2-month fishing households in 1999.
- Proxy data were obtained for 30.8% of the households in 2000 and 30.6% of the households in 1999.

TABLE IV
FISHERMEN PROFILED[1]
WAVE 6, 2000

	PAST 2-MO FISHING HHS		FISHERMEN IDENTIFIED		FISHERMEN PROFILED	
	1999	2000	1999	2000	1999	2000
Total Base	**1,938**	**1,903**	**3,057**	**3,041**	**2,739**	**2,678**
Fishermen Profiled - %	**99.7**	**99.5**	**89.6**	**88.1**	**100.0**	**100.0**
Personally Interviewed - %	92.1	91.9	60.5	59.1	67.5	67.1
Proxy Interviews - %	30.6	30.8	29.1	29.0	32.4	32.9
Other Angler (child/language)	0.8	0.8	0.6	0.6	0.6	0.6
Spokesperson (aka, proxy angler)	29.8	30.0	28.5	28.4	31.8	32.3
No Fishermen Profiled - %	**0.3**	**0.5**	**10.4**	**11.9**	**---**	**---**
Refusals - %	n/a	n/a	4.6	3.9	---	---
Unavailable - %	n/a	n/a	5.8	8.0	---	---

[1] Households may have respondents in more than one of the categories portrayed.

Qualified Fishermen Reversions (Refer to Table V below.)

- **P** Of the 2,063 households initially thought to contain qualified fishermen, 7.8% reverted to non-qualified households.
- **P** The reversion rate across geographic regions varied from a low of 6.9% in the Southeast to a high of 12.6% in the Pacific.

TABLE V
QUALIFIED FISHERMEN REVERSIONS
WAVE 6, 2000

	INITIAL # OF HHS WITH QUALIFIED FISHERMEN	% REVERTED TO UNQUALIFIED
GRAND TOTAL	***2,063***	***7.8***
Total - Pacific	**167**	**12.6**
S. California	48	14.6
N. California	62	9.7
Pacific Northwest	57	14.0
Total - Northeast	**506**	**7.9**
North Atlantic	32	9.4
Mid Atlantic	474	7.8
Total - Southeast	**1,292**	**6.9**
South Atlantic	554	6.9
Gulf of Mexico	738	6.9
Total - Caribbean	**98**	**10.2**

2-MONTH AND 12-MONTH FISHING PREVALENCE RATES
BY STATE

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000

STATE/REGION	QUOTA	TOTAL HOUSEHOLDS	12 MONTH FISHER HH	2 MONTH FISHER HH	AVG. TRIPS PER HH	AVG. TRIPS PER FISHER
BASE U.S.	**39376**	**39669**	**5810**	**1903**	**2.67**	**2.00**
			14.6%	**4.8%**		
PACIFIC TOTAL	**7585**	**7634**	**718**	**146**	**2.21**	**1.77**
			9.4%	**1.9%**		
S. California	2158	2173	182	41	2.22	1.72
			8.4%	1.9%		
N. California	3094	3112	240	56	2.43	1.84
			7.7%	1.8%		
PACIFIC N.W. TOTAL	2333	2349	296	49	1.94	1.73
			12.6%	2.1%		
Oregon	1248	1258	142	25	2.16	1.93
			11.3%	2.0%		
Washington	1085	1091	154	24	1.71	1.52
			14.1%	2.2%		
NORTH EAST TOTAL	**12160**	**12229**	**1866**	**466**	**2.42**	**1.92**
			15.3%	**3.8%**		
NORTH ATLANTIC TOTA	1568	1573	191	29	2.72	2.47
			12.1%	1.8%		
Connecticut	422	426	37	5	0.60	1.00
			8.7%	1.2%		

2 MONTH FISHING HOUSEHOLDS INTERVIEWED AND NOT INTERVIEWED
BY REGION AND STATE

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000

AREA	2 MONTH FISHING HOUSEHOLDS								
	TOTAL 2 MONTH FISH HH	1/MORE FISHER INTV'D	1/MORE FISHER REFUSE	1/MORE CHILD/ LANGUAGE PROVIDED BY OTHER	1/MORE UNAVAIL PROVIDED BY OTHER	NO FISHR INTV'D	TOTAL HH ANGLER DATA	TOTAL HH CLAIMED FISH HH	TOTAL HH REVERT TO NON-FISH
BASE U.S.	**1903**	**1749**	**87**	**15**	**571**	**10**	**1893**	**2063**	**160**
		91.9%	**4.6%**	**0.8%**	**30.0%**	**0.5%**	**99.5%**		**7.8%**
PACIFIC TOTAL	**146**	**133**	**8**	**1**	**43**	**1**	**145**	**167**	**21**
		91.1%	**5.5%**	**0.7%**	**29.5%**	**0.7%**	**99.3%**		**12.6%**
S. California	41	36	2	0	15	0	41	48	7
		87.8%	4.9%	0.0%	36.6%	0.0%	100.0%		14.6%
N. California	56	54	1	0	16	1	55	62	6
		96.4%	1.8%	0.0%	28.6%	1.8%	98.2%		9.7%
PACIFIC N.W. TOTA	49	43	5	1	12	0	49	57	8
		87.8%	10.2%	2.0%	24.5%	0.0%	100.0%		14.0%
Oregon	25	21	3	1	7	0	25	30	5
		84.0%	12.0%	4.0%	28.0%	0.0%	100.0%		16.7%
Washington	24	22	2	0	5	0	24	27	3
		91.7%	8.3%	0.0%	20.8%	0.0%	100.0%		11.1%
NORTH EAST TOTA	**466**	**429**	**14**	**5**	**117**	**4**	**462**	**506**	**40**
		92.1%	**3.0%**	**1.1%**	**25.1%**	**0.9%**	**99.1%**		**7.9%**
NORTH ATLANTIC	29	24	3	0	7	0	29	32	3
		82.8%	10.3%	0.0%	24.1%	0.0%	100.0%		9.4%
Connecticut	5	3	1	0	2	0	5	6	1
		60.0%	20.0%	0.0%	40.0%	0.0%	100.0%		16.7%
Massachusetts	10	8	1	0	5	0	10	12	2
		80.0%	10.0%	0.0%	50.0%	0.0%	100.0%		16.7%

AVERAGE NUMBER OF TRIPS PER ANGLER
BY MODE BY STATE OF RESIDENCE

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000

AREA	TOTAL	DK/REFUSED		SHORE		PARTY BOAT		CHARTER BOAT		PARTY/CHART.		PRIVATE/RNTL.		DK BOAT TYPE	
		NUM.	AVG/ ANG.	NUM.	AVG/ ANG.	NUM.	AVG/ ANG.	NUM.	AVG/ ANG.	NUM.	AVG/ ANG.	NUM.	AVG/ ANG.	NUM.	AVG/ ANG.
BASE U.S.	**5074**	**17**	**1.31**	**1577**	**1.63**	**80**	**1.23**	**159**	**1.19**	**239**	**1.20**	**3161**	**1.80**	**80**	**1.00**
	100.0%	**0.3%**		**31.1%**		**1.6%**		**3.1%**		**4.7%**		**62.3%**		**1.6%**	
PACIFIC TOTAL	**322**	**6**	**2.00**	**96**	**1.63**	**14**	**1.17**	**25**	**1.14**	**39**	**1.15**	**177**	**1.77**	**4**	**1.00**
	100.0%	**1.9%**		**29.8%**		**4.3%**		**7.8%**		**12.1%**		**55.0%**		**1.2%**	
S. California	91	0	0.00	32	1.88	3	1.00	10	1.11	13	1.08	44	1.76	2	1.00
	100.0%	0.0%		35.2%		3.3%		11.0%		14.3%		48.4%		2.2%	
N. California	136	6	2.00	40	1.54	10	1.25	8	1.00	18	1.13	72	1.89	0	0.00
	100.0%	4.4%		29.4%		7.4%		5.9%		13.2%		52.9%		0.0%	
PACIFIC N.W. TOTAL	95	0	0.00	24	1.50	1	1.00	7	1.40	8	1.33	61	1.65	2	1.00
	100.0%	0.0%		25.3%		1.1%		7.4%		8.4%		64.2%		2.1%	
Oregon	54	0	0.00	14	2.00	0	0.00	7	1.40	7	1.40	31	1.55	2	1.00
	100.0%	0.0%		25.9%		0.0%		13.0%		13.0%		57.4%		3.7%	
Washington	41	0	0.00	10	1.11	1	1.00	0	0.00	1	1.00	30	1.76	0	0.00
	100.0%	0.0%		24.4%		2.4%		0.0%		2.4%		73.2%		0.0%	
NORTH EAST TOTAL	**1130**	**4**	**1.00**	**300**	**1.75**	**17**	**1.13**	**63**	**1.13**	**80**	**1.13**	**736**	**1.82**	**10**	**1.00**
	100.0%	**0.4%**		**26.5%**		**1.5%**		**5.6%**		**7.1%**		**65.1%**		**0.9%**	
NORTH ATLANTIC TOTAL	79	0	0.00	53	2.52	1	1.00	1	1.00	2	1.00	24	1.60	0	0.00
	100.0%	0.0%		67.1%		1.3%		1.3%		2.5%		30.4%		0.0%	
Connecticut	3	0	0.00	2	1.00	0	0.00	0	0.00	0	0.00	1	1.00	0	0.00
	100.0%	0.0%		66.7%		0.0%		0.0%		0.0%		33.3%		0.0%	
Massachusetts	59	0	0.00	44	3.67	1	1.00	0	0.00	1	1.00	14	1.75	0	0.00
	100.0%	0.0%		74.6%		1.7%		0.0%		1.7%		23.7%		0.0%	

TYPE OF ACCESS BY STATE OF RESIDENCE
PRIVATE BOATS

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000 AREA	PRIV. BOAT TRIPS	LAUNCH RAMP	BOAT SLIP	MOORED FROM DOCK	MOORED OTHER PUBLIC	PERSONAL RES./ DOCK	PRIVATE LOCKED MARINA	PRIVATE UNLOCK MARINA	OTHER PRIV.	DON'T KNOW
BASE U.S.	**3241**	**1425**	**114**	**166**	**63**	**626**	**215**	**394**	**35**	**203**
	100.0%	**44.0%**	**3.5%**	**5.1%**	**1.9%**	**19.3%**	**6.6%**	**12.2%**	**1.1%**	**6.3%**
PACIFIC TOTAL	**181**	**94**	**25**	**15**	**2**	**5**	**9**	**18**	**0**	**13**
	100.0%	**51.9%**	**13.8%**	**8.3%**	**1.1%**	**2.8%**	**5.0%**	**9.9%**	**0.0%**	**7.2%**
S. California	46	4	20	5	0	1	5	7	0	4
	100.0%	8.7%	43.5%	10.9%	0.0%	2.2%	10.9%	15.2%	0.0%	8.7%
N. California	72	55	3	5	0	1	0	4	0	4
	100.0%	76.4%	4.2%	6.9%	0.0%	1.4%	0.0%	5.6%	0.0%	5.6%
PACIFIC N.W. TOTAL	63	35	2	5	2	3	4	7	0	5
	100.0%	55.6%	3.2%	7.9%	3.2%	4.8%	6.3%	11.1%	0.0%	7.9%
Oregon	33	16	2	2	0	3	2	4	0	4
	100.0%	48.5%	6.1%	6.1%	0.0%	9.1%	6.1%	12.1%	0.0%	12.1%
Washington	30	19	0	3	2	0	2	3	0	1
	100.0%	63.3%	0.0%	10.0%	6.7%	0.0%	6.7%	10.0%	0.0%	3.3%
NORTH EAST TOTAL	**746**	**257**	**30**	**27**	**6**	**222**	**41**	**91**	**19**	**53**
	100.0%	**34.5%**	**4.0%**	**3.6%**	**0.8%**	**29.8%**	**5.5%**	**12.2%**	**2.5%**	**7.1%**
NORTH ATLANTIC TOTAL	24	6	2	3	0	4	2	3	0	4
	100.0%	25.0%	8.3%	12.5%	0.0%	16.7%	8.3%	12.5%	0.0%	16.7%
Connecticut	1	0	0	0	0	0	1	0	0	0
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Massachusetts	14	4	1	1	0	4	0	0	0	4
	100.0%	28.6%	7.1%	7.1%	0.0%	28.6%	0.0%	0.0%	0.0%	28.6%
Rhode Island	9	2	1	2	0	0	1	3	0	0
	100.0%	22.2%	11.1%	22.2%	0.0%	0.0%	11.1%	33.3%	0.0%	0.0%

TIME OF FISHING TRIP BY STATE OF RESIDENCE

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000

AREA	TOTAL	MIDNIGHT 3 AM	3 AM 6 AM	6 AM 9 AM	9 AM NOON	NOON 3 PM	3 PM 6 PM	6 PM 9 PM	9 PM MIDNIGHT	DEPENDS ON TIDES	MULTI-DAY TRIP	DON'T KNOW
BASE U.S.	**5074**	**145**	**64**	**72**	**388**	**1308**	**2089**	**396**	**201**	**14**	**28**	**369**
	100.0%	**2.9%**	**1.3%**	**1.4%**	**7.6%**	**25.8%**	**41.2%**	**7.8%**	**4.0%**	**0.3%**	**0.6%**	**7.3%**
PACIFIC TOTAL	**322**	**2**	**2**	**3**	**38**	**109**	**123**	**15**	**0**	**7**	**2**	**21**
	100.0%	**0.6%**	**0.6%**	**0.9%**	**11.8%**	**33.9%**	**38.2%**	**4.7%**	**0.0%**	**2.2%**	**0.6%**	**6.5%**
S. California	91	0	0	0	8	28	38	8	0	0	2	7
	100.0%	0.0%	0.0%	0.0%	8.8%	30.8%	41.8%	8.8%	0.0%	0.0%	2.2%	7.7%
N. California	136	0	1	1	22	48	50	7	0	1	0	6
	100.0%	0.0%	0.7%	0.7%	16.2%	35.3%	36.8%	5.1%	0.0%	0.7%	0.0%	4.4%
PACIFIC N.W. TOTAL	95	2	1	2	8	33	35	0	0	6	0	8
	100.0%	2.1%	1.1%	2.1%	8.4%	34.7%	36.8%	0.0%	0.0%	6.3%	0.0%	8.4%
Oregon	54	0	1	1	8	20	13	0	0	5	0	6
	100.0%	0.0%	1.9%	1.9%	14.8%	37.0%	24.1%	0.0%	0.0%	9.3%	0.0%	11.1%
Washington	41	2	0	1	0	13	22	0	0	1	0	2
	100.0%	4.9%	0.0%	2.4%	0.0%	31.7%	53.7%	0.0%	0.0%	2.4%	0.0%	4.9%
NORTH EAST TOTAL	**1130**	**38**	**9**	**22**	**76**	**310**	**447**	**72**	**47**	**1**	**4**	**104**
	100.0%	**3.4%**	**0.8%**	**1.9%**	**6.7%**	**27.4%**	**39.6%**	**6.4%**	**4.2%**	**0.1%**	**0.4%**	**9.2%**
NORTH ATLANTIC TOTAL	79	3	2	2	10	8	45	4	1	0	0	4
	100.0%	3.8%	2.5%	2.5%	12.7%	10.1%	57.0%	5.1%	1.3%	0.0%	0.0%	5.1%
Connecticut	3	0	0	0	2	0	1	0	0	0	0	0
	100.0%	0.0%	0.0%	0.0%	66.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Massachusetts	59	2	1	2	6	2	39	2	1	0	0	4
	100.0%	3.4%	1.7%	3.4%	10.2%	3.4%	66.1%	3.4%	1.7%	0.0%	0.0%	6.8%
Rhode Island	17	1	1	0	2	6	5	2	0	0	0	0
	100.0%	5.9%	5.9%	0.0%	11.8%	35.3%	29.4%	11.8%	0.0%	0.0%	0.0%	0.0%

OUT-OF-STATE FISHING TRIPS
BY STATE AND REGION

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000

	BASE U.S.	**PACIFIC TOTAL**	S. California	N. California	PACIFIC N.W. TOTAL	Oregon	Washington	**NORTH EAST TOTAL**
BASE - TOTAL TRIPS	**5074**	**322**	**91**	**136**	**95**	**54**	**41**	**1130**
NUMBER OF OUT-OF-STATE TRIPS	**259**	**14**	6	6	2	2	0	**75**
	5.1%	**4.3%**	6.6%	4.4%	2.1%	3.7%	0.0%	**6.6%**
NUMBER OF IN-STATE TRIPS	**4648**	**256**	75	88	93	52	41	**1055**
	91.6%	**79.5%**	82.4%	64.7%	97.9%	96.3%	100.0%	**93.4%**
TOTAL ANGLERS PROFILED	**2678**	**202**	56	82	64	32	32	**609**
with trip cards	**2541**	**182**	53	74	55	28	27	**590**
without trip cards	**137**	**20**	3	8	9	4	5	**19**
NUMBER OF ANGLERS MAKING OUT-OF-STATE TRIPS	**182**	**9**	6	1	2	2	0	**59**
	7.2%	**4.9%**	11.3%	1.4%	3.6%	7.1%	0.0%	**10.0%**
NUMBER OF ANGLERS MAKING IN-STATE TRIPS	**2366**	**154**	40	61	53	26	27	**550**
	93.1%	**84.6%**	75.5%	82.4%	96.4%	92.9%	100.0%	**93.2%**
AVERAGE TOTAL TRIPS	**2.00**	**1.77**	1.72	1.84	1.73	1.93	1.52	**1.92**
AVERAGE OUT-OF-STATE TRIPS	**1.42**	**1.56**	1.00	6.00	1.00	1.00	0.00	**1.27**
AVERAGE IN-STATE TRIPS	**1.96**	**1.66**	1.88	1.44	1.75	2.00	1.52	**1.92**

HOUSEHOLDS WITH FISHER UNAVAILABLE
DATA PROVIDED BY OTHER

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000	BASE FISHING HOUSEHOLDS	NUMBER OF HOUSEHOLDS WITH IMPUTED TRIPS
BASE U.S.	**1903**	**580**
		30.5%
PACIFIC TOTAL	**146**	**44**
		30.1%
S. California	41	15
		36.6%
N. California	56	16
		28.6%
PACIFIC N.W. TOTAL	49	13
		26.5%
Oregon	25	8
		32.0%
Washington	24	5
		20.8%
NORTH EAST TOTAL	**466**	**119**
		25.5%
NORTH ATLANTIC TOTAL	29	7
		24.1%
Connecticut	5	2
		40.0%
Massachusetts	10	5
		50.0%
Rhode Island	14	0
		0.0%
MID ATLANTIC TOTAL	437	112
		25.6%
Delaware	23	4
		17.4%
Maryland	103	25
		24.3%
New Jersey	35	7
		20.0%
New York	11	5
		45.5%
Virginia	265	71
		26.8%
SOUTH EAST TOTAL	**1203**	**386**
		32.1%
SOUTH ATLANTIC TOTAL	516	156
		30.2%
E. Florida	338	98
		29.0%
Georgia	42	12
		28.6%

DIALING RESULTS FOR CONTACTS

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000	BASE U.S.	PACIFIC TOTAL	S. California	N. California	PACIFIC N.W. TOTAL	Oregon	Washington	NORTH EAST TOTAL
BASE -TOTAL CONTACTS	**39669**	**7634**	**2173**	**3112**	**2349**	**1258**	**1091**	**12229**
REFUSED TO ANSWER 12 MONTH QUESTION	**0**	**0**	0	0	0	0	0	**0**
NO FISHING IN THE PAST 12 MONTHS	**33859** **85.4%**	**6916** **90.6%**	1991 91.6%	2872 92.3%	2053 87.4%	1116 88.7%	937 85.9%	**10363** **84.7%**
COULD NOT ANSWER 2 MONTH QUESTION	**0**	**0**	0	0	0	0	0	**0**
REFUSED TO ANSWER 2 MONTH QUESTION	**0**	**0**	0	0	0	0	0	**0**
NO FISHING IN LAST 2 MONTHS	**3747** **9.4%**	**551** **7.2%**	134 6.2%	178 5.7%	239 10.2%	112 8.9%	127 11.6%	**1360** **11.1%**
FIRST TIME CONTACTS WHO TURNED OUT TO BE NON-FISHING HOUSEHOLDS	**160** **0.4%**	**21** **0.3%**	7 0.3%	6 0.2%	8 0.3%	5 0.4%	3 0.3%	**40** **0.3%**
FISHING HOUSEHOLDS	**1903** **4.8%**	**146** **1.9%**	41 1.9%	56 1.8%	49 2.1%	25 2.0%	24 2.2%	**466** **3.8%**
TOTAL	**39669** **100.0%**	**7634** **100.0%**	2173 100.0%	3112 100.0%	2349 100.0%	1258 100.0%	1091 100.0%	**12229** **100.0%**

DISPOSITION OF IDENTIFIED ANGLERS

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONA

WAVE 6, 2000

	BASE U.S.	PACIFIC TOTAL	S. California	N. California	PACIFIC N.W. TOTAL	Oregon	Washington	NORTH EAST TOTAL
BASE - TOTAL IDENTIFI ANGLERS	**3041**	**223**	**63**	**88**	**72**	**36**	**36**	**677**
TOTAL ANGLERS PROF	**2678** **88.1%**	**202** **90.6%**	56 88.9%	82 93.2%	64 88.9%	32 88.9%	32 88.9%	**609** **90.0%**
ANGLERS INTERVI PERSONALLY	**1796** **59.1%**	**138** **61.9%**	36 57.1%	57 64.8%	45 62.5%	23 63.9%	22 61.1%	**435** **64.3%**
PROXY ANGLERS	**865** **28.4%**	**63** **28.3%**	20 31.7%	25 28.4%	18 25.0%	8 22.2%	10 27.8%	**169** **25.0%**
CHILDREN, LANGUAGE BARRI	**17** **0.6%**	**1** **0.4%**	0 0.0%	0 0.0%	1 1.4%	1 2.8%	0 0.0%	**5** **0.7%**
ANGLERS WHO REFUSE INFORMATION	**119** **3.9%**	**11** **4.9%**	2 3.2%	2 2.3%	7 9.7%	3 8.3%	4 11.1%	**20** **3.0%**
ANGLERS UNABLE TO CONTACTED OR PROFI	**244** **8.0%**	**10** **4.5%**	5 7.9%	4 4.5%	1 1.4%	1 2.8%	0 0.0%	**48** **7.1%**
TOTAL	**3041** **100.0%**	**223** **100.0%**	63 100.0%	88 100.0%	72 100.0%	36 100.0%	36 100.0%	**677** **100.0%**

RESPONSE CATEGORY BY DISPOSITION
SUBREGION 1 SOUTHERN CALIFORNIA

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000	S. CALIFORNIA		Los Angeles		Orange		Riverside		San Bernardino	
	#	%	#	%	#	%	#	%	#	%
NON-RESPONSE	3515	34.8%	1125	35.8%	792	37.7%	280	30.7%	351	34.0%
NO CONTACT	2773	27.5%	857	27.3%	660	31.4%	211	23.1%	279	27.0%
Busy	126	1.2%	44	1.4%	49	2.3%	4	0.4%	14	1.4%
No Answer	1341	13.3%	411	13.1%	337	16.1%	98	10.7%	126	12.2%
Not Available for Screening	888	8.8%	299	9.5%	147	7.0%	88	9.6%	92	8.9%
Answering Machine	418	4.1%	103	3.3%	127	6.1%	21	2.3%	47	4.6%
CONTACTED NON-RESPONDENTS	742	7.3%	268	8.5%	132	6.3%	69	7.6%	72	7.0%
Language Problem	253	2.5%	130	4.1%	44	2.1%	14	1.5%	24	2.3%
Refused	489	4.8%	138	4.4%	88	4.2%	55	6.0%	48	4.7%
RESPONSE	6584	65.2%	2018	64.2%	1307	62.3%	632	69.3%	681	66.0%
RESPONDENT INELIGIBLE	4411	43.7%	1378	43.8%	956	45.5%	379	41.6%	420	40.7%
Failed Prescreening	747	7.4%	225	7.2%	185	8.8%	50	5.5%	68	6.6%
Not in Service	1842	18.2%	574	18.3%	373	17.8%	163	17.9%	176	17.1%
Business Phone	1605	15.9%	515	16.4%	370	17.6%	140	15.4%	139	13.5%
Wrong Number	20	0.2%	7	0.2%	0	0.0%	3	0.3%	3	0.3%
Wrong County	90	0.9%	33	1.0%	7	0.3%	6	0.7%	21	2.0%
Not Permanent Resident	107	1.1%	24	0.8%	21	1.0%	17	1.9%	13	1.3%
ELIGIBLE NON-FISHING HOUSEHOLD	2132	21.1%	629	20.0%	342	16.3%	249	27.3%	256	24.8%
No Fishing in Past 12 Months	1991	19.7%	596	19.0%	318	15.2%	235	25.8%	240	23.3%
No Fishing in Past 2 Months	134	1.3%	32	1.0%	24	1.1%	13	1.4%	14	1.4%
First Time Contact/Non-Fishing	7	0.1%	1	0.0%	0	0.0%	1	0.1%	2	0.2%
ELIGIBLE FISHING HOUSEHOLD										
Fishing Household	41	0.4%	11	0.3%	9	0.4%	4	0.4%	5	0.5%

RESOLVED RECORDS BY DATE

MARINE RECREATIONAL FISHERY STATISTICS SURVEY

SOURCE: MACRO INTERNATIONAL

WAVE 6, 2000

Date Resolved	Resolved	Completed	Released
26-Dec-00	38402	3803	147245
27-Dec-00	18451	4635	
28-Dec-00	13668	3604	
29-Dec-00	9421	2910	
30-Dec-00	6014	2886	
31-Dec-00	2569	1222	
01-Jan-01	1819	961	
02-Jan-01	8368	4103	
03-Jan-01	11751	4434	7287
04-Jan-01	16705	4760	14883
05-Jan-01	13278	3326	5099
06-Jan-01	2786	692	
07-Jan-01	6636	1934	6997
08-Jan-01	1824	630	1643
Total	**151692**	**39900**	**183154**

Number of Attempts	Records Resolved
0	23057
1	69149
2	18812
3	11439
4	7169
5	4932
6	13242
7	2237
8	886
9	451
10	158
11	80
12	53
13	12
14	3
15	3
16	3
17	1
18	5
Total	**151692**

RESPONSES BY GENDER
KEY SCREENING QUESTIONS

MARINE RECREATIONAL FISHERY STATISTICS SURVEY
SOURCE: MACRO INTERNATIONAL

Wave 6, 2000

DOES ANYONE IN THE HOUSEHOLD GO FISHING?

Gender	Yes	No	TOTAL
Male	5604	10905	16509
	33.9%	66.1%	
Female	4177	19184	23361
	17.9%	82.1%	
TOTAL	9781	30089	39870

HAS ANYONE IN THE HOUSEHOLD BEEN SALTWATER SPORT FISHING IN THE LAST 2 MONTHS?

Gender	Yes	No	TOTAL
Male	1478	2080	3558
	41.5%	58.5%	
Female	558	1677	2235
	25.0%	75.0%	
TOTAL	2036	3757	5793

HAS ANYONE IN THE HOUSEHOLD BEEN SALTWATER SPORT FISHING IN THE LAST 12 MONTHS?

Gender	Yes	No	TOTAL
Male	3558	2046	5604
	63.5%	36.5%	
Female	2235	1942	4177
	53.5%	46.5%	
TOTAL	5793	3988	9781

EXISTENCE OF TYPE 1 CARDS?

Gender	Yes	No	TOTAL
Male	1264	15245	16509
	7.7%	92.3%	
Female	446	22915	23361
	1.9%	98.1%	
TOTAL	1710	38160	39870

(no Report 13 - reserved for Economic Add-On Summary)

Appendix S

CHBTS Wave Report Tables (example)

Table 28. Charter boat response rates by state

TOTAL (Wk 44-52)	RESPONDENTS				NON-RESPONDENTS						
State	Active eligibles	Inactive eligibles	Ineligibles	Subtotal	Refusal	Language Barrier	Non-contacts number	Non-contacts attempts	No contact possible	Subtotal	Total
Florida											
Region 1	143	15	5	163	20	0	25	4.6	8	53	216
Region 2	238	27	24	289	51	0	124	5.5	19	194	483
Region 3	182	18	15	215	62	0	70	4.8	13	145	360
Region 4	79	7	7	93	12	0	57	4.5	34	103	196
Region 5	78	7	17	102	9	0	33	4.4	12	54	156
FL totals	720	74	68	862	154	0	309	4.0	40	503	1365
Alabama	55	21	0	76	0	0	18	4.4	2	20	96
Missisippi	5	33	1	39	0	0	9	8.8	0	9	48
Louisiana	173	28	14	215	11	0	60	0.8	2	73	288
Total	953	156	83	1192	165	0	396	3.9	16	605	1797

	RESPONDENTS				NON-RESPONDENTS					
State	Active eligibles	Inactive eligibles	Ineligibles	Subtotal	Refusal	Language Barrier	Non contacts		No contact possible	Subtotal	Total
Florida											
Region 1	66.2%	6.9%	2.3%	75.5%	9.3%	0.0%	11.6%		3.7%	24.5%	100.0%
Region 2	49.3%	5.6%	5.0%	59.8%	10.6%	0.0%	25.7%		3.9%	40.2%	100.0%
Region 3	50.6%	5.0%	4.2%	59.7%	17.2%	0.0%	19.4%		3.6%	40.3%	100.0%
Region 4	40.3%	3.6%	3.6%	47.4%	6.1%	0.0%	29.1%		17.3%	52.6%	100.0%
Region 5	50.0%	4.5%	10.9%	65.4%	5.8%	0.0%	21.2%		7.7%	34.6%	100.0%
FL totals	52.7%	5.4%	5.0%	63.2%	11.3%	0.0%	22.6%		2.9%	36.8%	100.0%
Alabama	57.3%	21.9%	0.0%	79.2%	0.0%	0.0%	18.8%		2.1%	20.8%	100.0%
Missisippi	10.4%	68.8%	2.1%	81.3%	0.0%	0.0%	18.8%		0.0%	18.8%	100.0%
Louisiana	60.1%	9.7%	4.9%	74.7%	3.8%	0.0%	20.8%		0.7%	25.3%	100.0%
Total	53.0%	8.7%	4.6%	66.3%	9.2%	0.0%	22.0%		0.9%	33.7%	100.0%

Table 29. Charter Boat Frame Summary

Charter Boat Vessel Frame Summary - Wave 6, 2000								Missing items that placed vessels on Bad List				
State	**Directory**	**Uncoop**	**Good List**	**Bad List**	**SEHS**	**Inactive**	**Ineligible**	**Vslidflg**	**Activ_flg**	**St_flg**	**Fon_flg**	**Ncst_flg**
Florida												
Region 1	424	13	265	106	17	1	35	42			82	6
Region 2	948	32	570	309	23	7	39	158			245	15
Region 3	733	17	373	318	10	2	30	216			226	
Region 4	479	8	197	234	16	2	30	148			138	7
Region 5	380	7	162	163	11	2	42	108			94	18
FL totals	2964	77	1567	1130	77	14	176	672	0	0	785	46
Alabama	165	1	119	2	5	24	15				2	
Louisiana	454	24	367	15	8	12	52				6	9
Mississippi	70	0	57	2	0	2	9				2	1
Total	3653	102	2110	1149	90	52	252	672	0	0	795	56

								Percent of vessels missing the following items				
State		**Uncoop**	**Good List**	**Bad List**	**SEHS**	**Inactive**	**Ineligible**	**Vslidflg**	**Activ_flg**	**St_flg**	**Fon_flg**	**Ncst_flg**
Florida												
Region 1		3.1%	62.5%	25.0%	4.0%	0.2%	13.2%	39.6%	0.0%	0.0	77.4%	5.7%
Region 2		3.4%	60.1%	32.6%	2.4%	0.7%	6.8%	51.1%	0.0%	0.0	79.3%	4.9%
Region 3		2.3%	50.9%	43.4%	1.4%	0.3%	8.0%	67.9%	0.0%	0.0	71.1%	0.0%
Region 4		1.7%	41.1%	48.9%	3.3%	0.4%	15.2%	63.2%	0.0%	0.0	59.0%	3.0%
Region 5		1.8%	42.6%	42.9%	2.9%	0.5%	25.9%	66.3%	0.0%	0.0	57.7%	11.0%
FL totals		2.6%	52.9%	38.1%	2.6%	0.5%	11.2%	59.5%	0.0%	0.0	69.5%	4.1%
Alabama		0.6%	72.1%	1.2%	3.0%	14.5%	12.6%	0.0%	0.0%	0.0	100.0%	0.0%
Louisiana		5.3%	80.8%	3.3%	1.8%	2.6%	14.2%	0.0%	0.0%	0.0	40.0%	60.0%
Mississippi		0.0%	81.4%	2.9%	0.0%	2.9%	15.8%	0.0%	0.0%	0.0	100.0%	50.0%
Total		2.8%	57.8%	31.5%	2.5%	1.4%	11.9%	58.5%	0.0%	0.0	69.2%	4.9%

Table 30. Summary of Charter Results

Data Summarized at Vessel Level

---------- State=ALABAMA State Subregion=Whole State WAVE=Nov/Dec ----------

The FREQ Procedure

Table of STATUS by RESULT

STATUS(Contact Status Code) RESULT(Dialing Result)

Frequency Percent Row Pct Col Pct	No Answer	Answer Machine	Not Available	Not in Service	Success Contact	Total
Complete	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	61 56.48 100.00 70.93	61 56.48
Non-Contact	9 8.33 40.91 100.00	10 9.26 45.45 100.00	1 0.93 4.55 100.00	2 1.85 9.09 100.00	0 0.00 0.00 0.00	22 20.37
Inactive	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	25 23.15 100.00 29.07	25 23.15
Total	9 8.33	10 9.26	1 0.93	2 1.85	86 79.63	108 100.00

Data Summarized at Vessel Level

---------- State=ALABAMA State Subregion=Whole State WAVE=Nov/Dec ----------

The FREQ Procedure

Table of ATTEMPTS by RESULT

ATTEMPTS(Number of Contact Attempts) RESULT(Dialing Result)

Frequency Percent Row Pct Col Pct	No Answer	Answer Machine	Not Available	Not in Service	Success Contact	Total
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	13 12.04 100.00 15.12	13 12.04
1	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	1 0.93 3.23 50.00	30 27.78 96.77 34.88	31 28.70
2	1 0.93 3.33 11.11	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	29 26.85 96.67 33.72	30 27.78
3	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	9 8.33 100.00 10.47	9 8.33
4	4 3.70 33.33 44.44	5 4.63 41.67 50.00	0 0.00 0.00 0.00	1 0.93 8.33 50.00	2 1.85 16.67 2.33	12 11.11
5	3 2.78 33.33 33.33	4 3.70 44.44 40.00	1 0.93 11.11 100.00	0 0.00 0.00 0.00	1 0.93 11.11 1.16	9 8.33
6	1 0.93 25.00 11.11	1 0.93 25.00 10.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 1.85 50.00 2.33	4 3.70
Total	9 8.33	10 9.26	1 0.93	2 1.85	86 79.63	108 100.00

Data Summarized at Vessel Trip Level

---------- WAVE=Nov/Dec State=ALABAMA State Subregion=Whole State ----------

Table of PEOPLE by AREA_X

PEOPLE(PEOPLE) AREA_X(Primary Fishing Area)

Frequency Percent Row Pct Col Pct	Ocean > 3 Miles	Inland	Total
1	0 0.00 0.00 0.00	2 7.69 100.00 16.67	2 7.69
2	0 0.00 0.00 0.00	6 23.08 100.00 50.00	6 23.08
3	0 0.00 0.00 0.00	1 3.85 100.00 8.33	1 3.85
4	3 11.54 50.00 21.43	3 11.54 50.00 25.00	6 23.08
5	2 7.69 100.00 14.29	0 0.00 0.00 0.00	2 7.69
6	1 3.85 100.00 7.14	0 0.00 0.00 0.00	1 3.85
7	2 7.69 100.00 14.29	0 0.00 0.00 0.00	2 7.69
8	3 11.54 100.00 21.43	0 0.00 0.00 0.00	3 11.54
11	1 3.85 100.00 7.14	0 0.00 0.00 0.00	1 3.85
15	1 3.85 100.00 7.14	0 0.00 0.00 0.00	1 3.85
24	1 3.85 100.00 7.14	0 0.00 0.00 0.00	1 3.85
Total	14 53.85	12 46.15	26 100.00

Data Summarized at Vessel Trip Level

---------- WAVE=Nov/Dec State=ALABAMA State Subregion=Whole State ----------

The FREQ Procedure

Table of METHOD1 by AREA_X

METHOD1(Primary Fishing Method)
AREA_X(Primary Fishing Area)

Frequency Percent Row Pct Col Pct	Ocean > 3 Miles	Inland	Total
Trolling	2 7.69 100.00 14.29	0 0.00 0.00 0.00	2 7.69
Bottom fishing	12 46.15 100.00 85.71	0 0.00 0.00 0.00	12 46.15
Casting	0 0.00 0.00 0.00	8 30.77 100.00 66.67	8 30.77
Fly fishing	0 0.00 0.00 0.00	4 15.38 100.00 33.33	4 15.38
Total	14 53.85	12 46.15	26 100.00

Data Summarized at Vessel Trip Level

---------- WAVE=Nov/Dec State=ALABAMA State Subregion=Whole State ----------

The FREQ Procedure

Table of METHOD1 by MODE_F

METHOD1(Primary Fishing Method)	MODE_F(Fishing Mode)	
Frequency Percent Row Pct Col Pct	Charter	Total
Trolling	2 7.69 100.00 7.69	2 7.69
Bottom fishing	12 46.15 100.00 46.15	12 46.15
Casting	8 30.77 100.00 30.77	8 30.77
Fly fishing	4 15.38 100.00 15.38	4 15.38
Total	26 100.00	26 100.00

Appendix T

Non-Disclosure Forms for Staff Handling Confidential Data

FISHERIES STATISTICS AND ECONOMICS DIVISION OFFICE HANDBOOK

PROTECTION OF CONFIDENTIAL FISHERIES STATISTICS

PURPOSE:

This section:

- prescribes policies and procedures for protecting the confidentiality of data submitted to and collected by the National Oceanic and Atmospheric Administration (NOAA)/National Marine Fisheries Service (NMFS) as authorized or required by law;
- informs authorized users of their obligations for maintaining the confidentiality of data received by NMFS;
- provides for operational safeguards to maintain the security of data; and
- states the penalties provided by law for disclosure of confidential data.

This Order covers all confidential data received, collected, maintained, or used by NMFS.

The NMFS headquarters office with primary interest in confidentiality is F/ST1

POLICY:

For data subject to this Order, it is NMFS policy that:

- confidential data shall only be disclosed to the public if required by the Freedom of Information Act (FOIA), 5 U.S.C.552, the Privacy Act, 5 U.S.C. 552a, or by court order.
- Disclosure of data pursuant to a subpoena issued by an agency of competent jurisdiction is a lawful disclosure.
- Disclosure pursuant to a subpoena must be approved by GC;
- individual identifiers shall be retained with data, unless the permanent deletion is consistent with the needs of NMFS and good scientific practice [See Section 6.02c];
- and a notice is required on all report forms requesting data and must comply with 5 U.S.C. 552a(e)(3) and Paperwork Reduction Act requirements in NAO 216-8, Information Collections and Requirements Needing Office of Management and Budget Clearance. [See E.O. 12600 of June 23, 1987, for additional information regarding the rights of submitters to designate commercial confidential data at the time of submission.]

DATA COLLECTION:

To collect data, the Secretary may use Federal employees, contractor employees, or, pursuant to an to an agreement, State employees.

General Requirements

- Personnel authorized to collect Federal data must maintain all documents containing confidential data in secure facilities; and
- may not disclose confidential data, whether recorded or not, to anyone not authorized to receive and handle such data.

Specific Requirements

- Each Federal or contractor employee collecting or processing confidential data will be required to read, date, and sign a statement of nondisclosure, that affirms the employee's understanding of NMFS obligations with respect to confidential data and the penalties for unauthorized use and disclosure of the data.
- Upon signature, the employee's name will be placed on record as an "authorized user," and the employee will be issued certification.
- Data collected by a contractor must be transferred timely to authorized Federal employees; no copies of these data may be retained by the contractor.
- NMFS may permit contractors to retain aggregated data. A data return clause shall be included in the agreement.
- All procedures applicable to Federal employees must be followed by contractor employees collecting data with Federal authority.
- Under agreements with the State, each State data collector collecting confidential data will sign a statement at least as protective as the one signed by Federal employees, which affirms that the signer understands the applicable procedures and regulations and the penalties for unauthorized disclosure.

STATEMENT OF NON DISCLOSURE:

I have read the NOAA Administrative Order on Confidentiality of Statistics and understand its contents.

I will not disclose any data identified as confidential to any person(s), except as directed by the Assistant Administrator for Fisheries. I am fully aware of the civil and criminal penalties for unauthorized disclosure, misuse, or other violation of the confidentiality of such data.

I understand that I may be subject to criminal and civil penalties under provisions of Titles 5 U.S.C. 552 and 18 U.S.C. 1905, which are the primary Federal statutes prohibiting unauthorized disclosure of confidential data. I may also be subject to civil penalties for improper disclosure of data collected under the Magnuson Act or the MMPA.

_____
Name typed, date

_____
Signature

Affiliation: (Check one)
___ NMFS
___ Other Federal
___ State
___ Council Staff
___ Council Member
___ Contractor
___ Grantee

Type of Data:
___ Source
___ Subregional
___ Regional
___ Multiregional
___ Special

Access Number: _____

_____
Signature
Designated NMFS Official